

The **CHEMIST AND DRUGGIST**

For Retailer, Wholesaler and Manufacturer

JANUARY 7 1961

Sold only by Chemists — your profit $33\frac{1}{3}$ + BONUS

Haliborange **TABLETS**

Haliborange Tablets have rocketed to the top in three years, more advertising is bringing more and more sales this season.

THIS IS YOUR

NEW YEAR

BONUS OFFER

ORDER TODAY

THIS OFFER ENDS FEBRUARY 11th.
any number of bonus parcels
may be ordered.

ALLEN & HANBURY LTD LONDON

D

3 dozen bottles of 100

BONUS
3 bottles of 100
(i.e. 1 free bottle
in each dozen)

4 dozen bottles of 25
2 dozen bottles of 100

BONUS
4 bottles of 25,
2 bottles of 100 (i.e. 1 free
bottle in each dozen)

C

B

8 dozen bottles of 25
1 dozen bottles of 100
BONUS
8 bottles of 25, 1 bottle
of 100 (i.e. 1 free bottle
in each dozen)

A

12 dozen bottles of 25
BONUS
12 bottles of 25
(i.e. 1 free bottle in each dozen)

HERE AT LAST!

**AN INEXPENSIVE
SOLUTION TO ALL
YOUR CASH & STOCK
PROBLEMS!**



LOOK

**WHAT THIS BRILLIANT NEW
ADWEL MACHINE OFFERS YOU**

Write immediately for full
details of the Adwel

**'Cash Model' only
£54 0s. 0d.**

Special terms offered gladly

A printed list of purchases
for each customer.

Detachable adding machine
capable of all your stock-
taking and book-keeping
problems.

Spacious partitioned cash
drawer with locking device
and alarm system.

Correct total of each list at
a stroke of the handle.



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MULTI-REGISTER MACHINES

ADWEL ADDING MACHINES LIMITED
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Telephone : TRAfalgar 2203

The CHEMIST AND DRUGGIST

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No. 4221

Purchase Tax

PHOTOGRAPHIC LIGHTING EQUIPMENT

WITH effect from February 1 the 25 per cent. charge under group 24 of the Purchase Tax Schedule applies to all hand-held lighting units designed to operate in conjunction with cine or other cameras, whether or not the units are provided with camera platforms and whether or not the latter are drilled to accommodate a camera-fixing screw.

Retail Sales

BOARD OF TRADE FIGURES

RECENTLY issued Board of Trade figures show that sales of chemists' goods by independent retailers were 3.7 per cent. lower in October than in September but 5 per cent. higher than in October 1959. Multiple retailers' sales were 1.8 per cent. higher in October than in September and 9.6 per cent. higher than in October 1959. Sales by Co-operative societies were 3.8 per cent. higher than in September and 6.8 per cent. higher than in October 1959. The figures do not allow for receipts under the National Health Service.

Village Seeks Pharmacy

"NO IMMEDIATE PROSPECTS" AT MOSTYN

VILLAGERS of Mostyn, Flint, seem likely to have to continue to travel to nearby Holywell for their pharmaceutical requirements. That follows from the failure of local efforts to convince the Denbighshire and Flintshire Executive Council of the need for a chemist's shop in the village. A recent letter from the parish council to the Executive Council mentioned plans by the Holywell rural district council to erect 500 more houses in the area. On one estate shops were planned, and it was therefore possible, in the parish council's view, for a shop to be allocated to a chemist. The Executive Council has replied intimating that it cannot hold out any immediate prospect of the establishment of a retail pharmacy in Mostyn.

Warble Fly Order

NEW SPECIFICATION FOR DRESSING

READY-MADE derris preparations as an alternative to powdered derris diluted with water may now be used for the compulsory dressing of cattle infested with warble fly. The Warble Fly (Dressing of Cattle) (England and Wales) (Amendment) Order, 1960 (H.M. Stationery Office, price three-pence) varies the specification for the dressing, which is now required to be prepared immediately before use by

diluting with water a preparation containing derris root or rotenone and a suitable dispersing agent. The directions for dilution of the preparation are that each gallon of dressing must contain:—(a) either 1½ oz. of derris resin or ½ oz. of rotenone and (b) a sufficient quantity of the dispersing agent to produce a stable emulsion or suspension and to ensure the wetting of the treated skin. Compulsory dressing will, in future, apply to cattle where the warble fly maggot is discernible by touch, e.g., in long-haired beasts, as well as to those visibly infested. Dressing is required to take place each year during the period March 15 to June 30. Similar regulations have been introduced for Scotland. The Ministry of Agriculture is continuing to follow the development of systemic insecticides. When there has been more experience of those substances, the present policy of compulsory dressing is to be re-examined.

Outer Seven Trade

A.B.C.M. EXPLANATORY BOOKLET

THE Association of British Chemical Manufacturers has issued a booklet—*Origin Rules, Certification and Segregation of Stocks*—which explains the type, intention and scope of the European Free Trade Association origin rules both on the basis of "value" and "process" for chemicals and allied products falling in chapters 27-39 of the Brussels Tariff Nomenclature. Particular attention is drawn to the fact that,

whilst for exports of chemicals it may often be necessary to know whether or not the purchased chemical starting material has been made in the Area, there are relatively few cases where such information is required about the starting materials in the case of exports where these are not themselves classified as chemicals. Copies of the booklet are available from the Association, 86 Strand, London, W.C.2, on a cash with order basis price 3s. 6d.

"Filled Milk"

CONTROL OF LABELS AND ADVERTISING

TO enable consumers to distinguish skimmed milk with added non-milk fat, known as "filled milk," from whole milk, regulations controlling the labelling and advertising of such skimmed-milk products come into operation in England and Wales on September 19. The Skimmed Milk with Non-milk Fat Regulations, 1960 (H.M. Stationery Office, price sixpence) have been made jointly by the Ministers of Agriculture and Health. The regulations control the labelling and advertising of the "specified foods," that is, "skimmed milk with non-milk fat" and the same product in condensed or dried form, the products being defined by reference to their appearance and constituents. The regulations do not, however, apply to products sold under a description which indicates that they are not milk substitutes, for example, "ice-cream mix." The regulations require labels and advertisements for the "specified



LARGEST SINGLE SHIPMENT: Nearly 23 million tablets of Sulphamezathine were flown out to Nigeria from Prestwick in a specially chartered 'plane recently. The consignment, the largest ever sent as one shipment, was ordered by the Crown Agents acting for and on behalf of the Nigerian Government. The tablets were manufactured and packed into tins at the Regent works, nr. Linlithgow, of the pharmaceutical division of Imperial Chemical Industries, Ltd., and taken to the airport in a 15-ton lorry from the division's Grangemouth warehouse.

foods" to bear the words "Skimmed milk with non-milk fat" (or certain specified alternatives). Labels for the "specified foods" must bear the words "Unfit for babies" or "Not to be used for babies," except that, where the kind and amount of fat used is specified, the words "Should not be used for babies except under medical advice" may be substituted, and in the case of the foods listed in the second schedule, none of the declarations about baby feeding is required provided that the food conforms to the compositional requirements laid down for it in that schedule. The second schedule includes the following foods: Alfona, Alfona evaporated, White Dove, Efalac and S.M.A. Any label for a "specified food" which carries a claim in relation to coronary disease must also bear a statement of the kind and amount of fat used. The regulations prohibit the labelling or advertising of the "specified foods," and beverages containing skimmed milk, in a manner suggestive of milk or anything connected with dairy interest, but allow a description of the ingredients and method of manufacture and the name of the firm to be given. The regulations apply to England and Wales but corresponding regulations are proposed for Scotland and are under consideration for Northern Ireland.

Examination Results

INTERMEDIATE PASSES

THE following candidates satisfied the examiners in the Intermediate examination held by the Pharmaceutical So-

ciety in England and Wales in December 1960:—BLACKMORE, A. G., Welling; COXHEAD, Patricia A., Wigan; CRASKE, P. L., Leeds; LAWRENCE, Elizabeth M., Chard; MOLLON, P. R., Ormskirk. In the examinations in Scotland the following were successful:—ALLISON, Carole, North Shields; BOYLE, Thomas, Glasgow; DEASONHOUSE, J. A., Leeds; HOLDEN, E. B., Blackburn; PAUW, Leopoldine, Maastricht, Holland; PRICE, B. J., Romford.

Aerosol Sales Figures

CHEMISTS CLAIM THE MOST BUSINESS

ACCORDING to recently published statistics, the retail chemist is responsible for the sale of over a third of the air fresheners, fly killers, ant killers and moth proofers sold in aerosol form in the United Kingdom. Whereas the pharmacist claims 37.3 per cent. of the total trade in those commodities, the hardware and grocery trades only handle 27.3 and 14.6 per cent., respectively.

Testing of Vehicles

SCHEME TO BEGIN FEBRUARY 15

THE annual compulsory testing of motor vehicles of ten years old or more starts on February 15. By that date owners of vehicles registered before January 1, 1937, must obtain a certificate of approval. Vehicles registered before January 1, 1946, must pass a test before March 15; those registered before January 1, 1949, by April 15; and vehicles registered before May 15, 1951, by May 15. After

May 15 every owner is required to obtain a test certificate by the tenth anniversary of registration of his vehicle. The Motor Vehicles (Tests) Regulations, 1960, apply the testing scheme to: Mopeds, motor bicycles with or without side-cars; goods vehicles up to 30 cwt. unladen weight; private cars and dual-purpose vehicles up to 2 tons unladen weight.

SCOTTISH NEWS

Fife Chemists

PROMPTER PAYMENTS

FIFE's chemists should get payment for their N.H.S. prescriptions on time in future, under a new plan organised by the county's Executive Council. At its meeting in November the Council heard that a hamper containing a month's prescriptions for the whole county had gone astray on the way to Glasgow to be priced. The prescriptions, between 80,000 and 100,000, worth about £50,000, were being carried by British Road Services, and payment to the chemists was delayed until the package turned up. At its meeting in Kirkcaldy on December 23, 1960, the Council was told that the pricing office was now in Edinburgh, and the monthly hamper of prescriptions would have to be sent there. It was agreed to send an employee by car with the hamper.

Glasgow Theft

"YEARS OF WORK" STOLEN

A CANADIAN scientist (Mr. G. Van Patten) had his brief case containing important documents stolen from his car outside the Rio cinema, Bearsden, near Glasgow, on December 20. The notes — researches into the effect of drugs on the central nervous system of the human body — "represent years of work and would be absolutely unintelligible to whoever stole them." They were, however, important to the owner and might be important to the whole field of psycho-pharmacology. Mr. Van Patten is engaged in research at the department of pharmacology, Glasgow University, where he is studying on a drug-company fellowship.

IRISH NEWS

THE NORTH

Health Board

CLOSING TIMES AMENDED

A REQUEST from the Local Pharmaceutical Committee to amend the closing hours of a number of Belfast chemists in contract with the Northern Ireland General Health Services Board to 6 p.m. each evening (except for the half-holiday closing time of 1 p.m.) was reported by the Executive Committee of the Board at its December 1960 meeting in Belfast. The Committee approved the request on the assumption that the profession was satisfied that no hardship would be caused to patients obtaining drugs or appliances, though the Committee held the opinion that the general closing of chemists' shops at 6 p.m. might result, in certain areas, in an additional burden on chemists providing rota services.

EXHIBITIONS AND FAIRS IN 1961

United Kingdom

ANNUAL DAIRY SHOW, Olympia, London, W.14, October 24-27.

ANNUAL EXHIBITION OF THE PHYSICAL SOCIETY, Royal Horticultural Society's halls, London, S.W.1, January 16-20.

BUSINESS EFFICIENCY EXHIBITION, Grand hall, Olympia, London, W.14, October 2-11.

Daily Mail IDEAL HOME EXHIBITION, Olympia, London, W.14, March 7-April 3.

DISPLAY MARKET WEEK, Russell hotel, Russell Square, London, W.C.1, February 20-23.

DISPLAY PRODUCTION AND SCREEN PRINTING EXHIBITION AND PRODUCT FAIR, Washington hotel, Curzon Street, London, W.1, November 27-December 1.

FACTORY EQUIPMENT, HEATING, VENTILATION AND THERMAL INSULATION EXHIBITION, Earls Court, London, S.W.5, November 13-18.

INTERNATIONAL AUTOMATIC VENDING MACHINE EXHIBITION, Royal Horticultural Society new hall, London, S.W.1, May 15-19.

INTERNATIONAL HOSPITAL EQUIPMENT AND MEDICAL SERVICES EXHIBITION, Olympia, London, W.14, May 15-20.

INTERNATIONAL PACKAGING EXHIBITION, Olympia, London, W.14, September 5-15.

INTERNATIONAL PHOTO-FAIR, Olympia, London, W.14, May 29-June 3.

INTERNATIONAL PLASTICS EXHIBITION AND CONVENTION (INTERPLAS), Olympia, London, W.14, June 21-July 1.

INTERNATIONAL REFRIGERATION AND AIR CONDITIONING EXHIBITION, Earls Court, London, S.W.5, April 11-14.

LONDON MEDICAL EXHIBITION, Royal Horticultural Society new hall, London, S.W.1, November 13-17.

MEDICAL EXHIBITION, Princes hall, Broad Street, Birmingham, June 12-16.

OPHTHALMIC OPTICAL TRADE EXHIBITION AND CONFERENCE, Royal Albert hall, London, S.W.7, July 4-7.

REGIONAL BUSINESS EFFICIENCY EXHIBITION, Sophia Gardens hall, Cardiff, March 21-24.

SELF SERVICE AND SHOP EQUIPMENT EXHIBITION, Olympia, London, W.14, May 15-19.

TECHNICAL EXHIBITION OF THE OIL AND COLOUR CHEMISTS' ASSOCIATION, Royal Horticultural Society new hall, London, S.W.1, March 6-9.

Overseas

ACHEMA—CONGRESS AND EXHIBITION OF CHEMICAL APPARATUS, Frankfurt, Germany, June 9-17.

BIENNALE INTERNATIONALE PHOTO-CINEMA-OPTIQUE, Palais des Expositions, Paris, April 15-24.

GERMAN SOAP FAIR, Berlin, Germany, September 16-19.

INTERNATIONAL PACKAGING EXHIBITION (MACROPACK), Amsterdam, Netherlands, May 2-9.

INTERNATIONAL PACKAGING EXHIBITION (IPACK), Milan, Italy, June 20-29.

NUCLEAR AND ELECTRONIC CONGRESS AND EXHIBITION, Rome, Italy, June 12-24.

IRISH BREVITIES

THE REPUBLIC

SPEAKER at a meeting to be held at the College of Pharmacy, Dublin, at 7.30 p.m. on February 2 is Mr. A. R. G. Chamings (a member of the Council of the Pharmaceutical Society of Great Britain). The meeting is under the auspices of the Irish Pharmaceutical Students' Association.

NEWS IN BRIEF

SINCE January 1, farthings have no longer been legal tender.

THIEVES stole over £100 from the pharmacy of Mr. F. L. Dent, 35A Gaolgate Street, Stafford, recently.

THE quotas established in the Anglo-Czechoslovak trade arrangement of April 13, 1960, are being extended, on a proportionate basis, for a period of three months from January 1.

THE application for imposition of anti-dumping duties on vinyl acetate (monomer) imported from Italy and Switzerland (see *C. & D.*, October 22, 1960, p. 493), has been withdrawn.

THE Registrar General's return for the September quarter of 1960 (H.M. Stationery Office, price 2s.) shows that notifications of acute poliomyelitis fell to 138 from 447 for the corresponding period of 1959. The figure is the lowest for a September quarter for six years.

KIDDERMINSTER borough council has decided to ask the Association of Municipal Corporations to consider the possibility of evolving a national code of standards for automatic vending machines similar to that for advertisements.

THE Home Office state that, pending consideration by the Poisons Board of representations that have been received, ethoheptazine and its salts (Zactirin) are not being added to the Poisons List as previously announced (*C. & D.*, November 26, 1960, p. 661).

THE National Health Service (Scottish Health Services Council and Standing Advisory Committees) Amendment Regulations, 1960 (H.M. Stationery Office, price 3d.), effective from January 1, extends from three to four years the term of office of members of the Scottish Health Services Council and of any Standing Advisory Committee constituted under the National Health Service (Scotland) Act, 1947.



TROPHY TO WINNER: Mr. E. M. McIntosh, winner of the Avlon trophy competition, 1960, of the Manchester and District Pharmaceutical Golfing Society, receives the trophy from Mr. Sidebottom, representing the donors, Imperial Chemical Industries, Ltd. (pharmaceuticals division).

TOPICAL REFLECTIONS

By Xrayser

Our future

The close of one year and the opening of another is traditionally a time for taking stock, for reminiscence and for prediction. Quite fortuitously your issue of December 31, 1960, contains a page that appears to conform to custom. While still in that delightful delirium which follows in the wake of Christmas, I glanced at p. 790 and read "Is retail pharmacy moribund?" Staring at me from the same page were the words: "Proprietors' gloomy future," and I felt that, whatever else in the world might have changed over the past fifty years, pharmacy remained unaltered. It was courageous of Mr. H. S. Grainger, whose pharmaceutical activities lie in another sphere, to address what was presumably a largely retail audience on the problems affecting that branch of the profession. It may be that, as an onlooker, he was better placed to take a detached view of the situation of the retail pharmacist, and there is truth in much of what he said. It has always been one of the drawbacks to a career in retail pharmacy that a good starting salary for a young man does not carry with it the prospect of steady and continuing advancement, and, as the speaker said, the interval between minimum and maximum earning was narrow. There may be exceptions, but generally speaking Mr. Grainger's assertion is true—probably more so at the present time than ever before. The manner in which pharmacy has developed in this country, with large numbers of branch pharmacies run by managers, has resulted in a scramble for pharmacists so that the branches may remain open. To a great extent the emphasis is now on the certificate rather than on its owner, and that has to be paid for at a rising price in a market in which the commodity is short. Consequently initial salaries are high (though no higher than deserved for the knowledge and responsibility) and future prospects are poor. To any company whose interest in pharmacy is purely financial, the principal question is the cost of a certificate.

Profession or trade

Probably no greater compliment can be paid to a speaker than to say that his matter has given food for thought, and I pay Mr. Grainger that compliment now. It is a delicate way of saying that I do not fully agree with some of his arguments. The report of his remarks reads: "the mark of professional activity was that the professional man sold his services and the trader sold his goods. Pharmacy was often neither one thing nor the other. The technical skill of the retail pharmacist had dwindled in importance almost to nil before the onslaught of the manufacturers' products." I should have thought that that onslaught was not exclusively directed at the retail pharmacist. The paragraph went on: "His (the retail pharmacist's) only saleable asset as a professional man was his knowledge of the medicines he sold . . . Quite a different state of affairs occurred in optics or dentistry, where the main activity was the sale of service, and goods were almost incidental adjuncts. The prestige of those practitioners exceeded that of the pharmacist, and the financial rewards paid by the National Health Service were higher per unit of work." That seems to me to be another way of saying that the income from "trade" of the pharmacist is useful as a means of subsidising his services to the State, for, after making all allowances, much of the work of the optician is undertaken in factories, and a good deal of dental work is done by mechanics.

Upward trend

We appear to be in the throes of one of those periodic general rises in price in the field of tooth-pastes. The incongruities in the situation appear to be obvious to the consumers, if they have escaped the notice of the manufacturers. A situation in which bargain offers, either in the form of free gifts, double packs and something off, at the same time as the producers find it necessary to raise the face price, is not readily understood by the uninitiated. A pharmacist or his assistant at the counter offers tooth-paste today with apology rather than with pride.

ROYAL WARRANT HOLDERS

1960 list published

INCLUDED in the full list of royal warrant holders published as a supplement to *The London Gazette* on January 1 were the following:—

To the Queen

AIRWICK, LTD., Slough, Bucks (Airwick).
 ALLEN & NEALE (CHEMISTS), LTD., King's Lynn.
 JOSEPH BENTLEY, LTD., Barrow-on-Humber (horticultural chemicals).
 BOOTS PURE DRUG CO., LTD., Nottingham (soap and insecticides).
 BRITISH GLUES AND CHEMICALS, LTD., London (mineral supplements).
 H. BRONNLEY & Co., LTD., London (toilet soap).
 WILLIAM BUDDLES & Co., London (chemists).
 COOPER, McDUGALL & ROBERTSON, LTD., Berkhamsted, Herts (sheep and cattle dips, veterinary preparations).
 CORY BROS. (HOSPITAL CONTRACTS CO.), LTD., London (surgical equipment).
 JOSEPH CROSFIELD & SONS, LTD., Warrington, Lancs (soap).
 CYCLAX, LTD., London (beauty products).
 DAY, SON & HEWITT, LTD., London (animal medicines).
 FISONS, LTD., Felixstowe (fertilisers).
 GASCOIGNE-CROWTHER, LTD., Caversham (dairy cleansers).
 D. & W. GIBBS, LTD., London (soap).
 WALLACE HEATON, LTD., London (photographic equipment).
 H. J. HEINZ & Co., LTD., London.
 HYGENOL Co., LTD., Leeds (polishes and disinfectants).
 ILFORD, LTD., London.
 M. L. IRONSIDE, Ballater (chemist).
 JEYES' SANITARY COMPOUNDS, LTD., Chigwell (disinfectants).
 S. C. JOHNSON & SON, LTD., West Drayton (polishes).
 G. B. KENT & SONS, LTD., London (brushes).
 JOHN KNIGHT, LTD., London (soap).
 KODAK, LTD., London.
 LEVER BROS., PORT SUNLIGHT, LTD., Port Sunlight, Ches (soap).
 LONDON ESSENCE Co., LTD., London (cleaning compound).
 MACKENZIE & Co. (CHEMISTS), LTD., Edinburgh.
 MURPHY CHEMICAL Co., LTD., Wheat-hampstead (agricultural insecticides).
 A. NELSON & Co., LTD., London (chemists).
 A. & F. PEARS, LTD., Isleworth (soap).
 THOMAS PETTIFER & Co., LTD., Northampton (animal medicines).
 POTTER & CLARKE, LTD., Barking (nose-gays).
 RECKITT & SONS, LTD., Hull (metal polish, antiseptics and disinfectants).
 C. J. REID (ETON), LTD., Eton (chemist).
 ROBERTS WINDSOR, LTD., Windsor (toilet soap and cleaning fluids).
 ROGER & GALLER, Paris, France (soap).
 L. ROSE & Co., LTD., St. Albans, Herts (lime juice cordial).
 SANITAS Co., LTD., London (Sanitas).
 SAVORY & MOORE, LTD., London.
 SCRUBB & Co., LTD. (cloudy ammonia).
 SHELL CHEMICAL Co., LTD., London (fertilisers and weedkillers).
 SHEPHERD'S AEROSOLS, LTD., Frant (Acrovap).
 SPILLERS, LTD., London (dog foods, etc.).

SPRATTS PATENT, LTD., London (dog foods).
 THAWPIT, LTD., London (Thawpit).
 THERMOS, LTD., London.
 VINOLIA Co., LTD., Isleworth (soap).
 YARDLEY & Co., LTD., London (soap).

To the late King George VI

BOVRIL, LTD., London (Bovril).
 H. E. CURTIS & SON, LTD., London (surgical appliances).
 J. FLORIS, LTD., London (perfumers).
 HORLICKS, LTD., Slough (malted milk).
 KIA-ORA, LTD., London (fruit beverages).
 SODASTREAM, LTD., London (soda water machine manufacturers).

To the late King George V

BEKEN & SON, Cowes, Isle of Wight (chemists and druggists).

To the late Queen Mary

F. G. DE FAYE, LTD., Jersey (perfumers).
 FREDERICK SAGE & Co., LTD., London (showcase makers).
 SAVORY & MOORE, LTD., London.
 STEINER, London (hairdressers and perfumers).
 YARDLEY & Co., LTD., London.

To Queen Elizabeth the Queen Mother
 H. BRONNLEY & Co., LTD., London (toilet soap).

D. R. HARRIS & Co., LTD., London (chemists).

WALLACE HEATON, LTD., London (photographic equipment).

THOMAS HEDLEY & Co., LTD., New-castle-on-Tyne (soaps and detergents).

S. C. JOHNSON & SON, LTD., West Drayton (polishes).

LEVER BROS., PORT SUNLIGHT, LTD., Port Sunlight, Ches (soap).

A. NELSON & Co., LTD., London (chemists).

ROBERTS WINDSOR, LTD., Windsor (toilet soap).

SAVORY & MOORE, LTD., London.

To the Duke of Edinburgh

WALLACE HEATON, LTD., London (photographic equipment).

PENHALIGON'S, LTD., London (toilet requisites).

RONSON PRODUCTS, LTD., London (electric shavers).

SAVORY & MOORE, LTD., London.

CHARLES TOPPER, London (toilet requisites).

MORE CONSUMER TESTS

Blankets, slide viewers and thermometers

ELECTRIC blankets, slide viewers and clinical thermometers were the subject of a recent inquiry by the Consumers' Association, Ltd. Their findings are published in *Which?*, the Association's official journal. The Association examined eleven popular single-bed electric blankets and two brands sold only in certain large stores, both of which failed to satisfy certain of the electrical safety tests and were not further investigated. The report states "The disturbing conclusion from safety and reliability tests is that only DREAMLAND, JONELL, PIFCO, THERMEGA, MORPHY-RICHARDS, NORVIC T.3 and WINDAK—seven of the thirteen models—were up to the minimum standard set by the tests of the British Standards Institute, and two of these, DREAMLAND and WINDAK, had instructions not complying with the British Standard. Of the six which did not pass, five failed the flammability test (on at least one sample) and one the cord anchorage test; one had an over-heated element; two failed the loading limit; one the electric strength and insulation resistance tests." The Association adds that, if judged by the proposed amendments to the New Zealand Standard (which is based on the British Standard) or by the U.S. Underwriters' regulations, all the blankets they tested would fail. The Association is of opinion that too little information is available about the precise causes of fires from electric blankets, whether they are due to production faults in the blankets or result from inherently defective design, or how many defects are caused by normal wear and tear and how many by misuse. They urge that all manufacturers should ensure that their blankets satisfy the British

Standard, and advise all users to make sure that blankets never get folded or creased, never have clothes piled on them when switched on, that the flex is where no one can fall over it, that the manufacturers' instructions are read and obeyed and that, as an additional precaution, a blanket is switched off before the user gets into bed. Finally the CA feel "that the whole situation should be re-examined, with detailed research into the causes of electric blanket accidents, means of making them safe, and, in particular, into methods of making them proof against misuse by the old, the careless or the sleepy."

Twenty-three slide viewers, all suitable for 35-mm. transparency slides and ranging in price from 3s. 6d. to £6 19s., were examined and tested. Of the mains viewers all were found to have "several serious defects." As "best buy" in that group the Association chose the GNOME 521, which showed an evenly lit slide and which was nearly £1 cheaper than any other model. The investigators found it impossible to choose between the HOPTIX, ARGUS PREVIEWER, PATERSON MAJOR-VIEWER 35, TRU VUE and VIEW MASTER BI-LENS 35 in the battery viewer range, the performances of which were fairly closely matched. The KODAK KODASLIDE and the JOHNSON POCKET VIEWER were selected as "joint best buys" from the group of external light viewers tested by the Association.

To get a representative sample of the clinical thermometers generally available the Association purchased 407 instruments over a period of three months in various parts of Great Britain. None bearing the mark of the

National Physical Laboratory was bought, as those had, of course, been previously tested. On the basis of the Association's tests for accuracy and legibility, "there is some evidence—substantial though not conclusive—

that if you buy a thermometer marked ZEAL, you are less likely to get one that fails the British Standard than if you buy one marked BRANNAN. There is similar evidence that, if you buy a thermometer marked BRANNAN you are

less likely to get one that fails the British Standard than if you buy an unmarked thermometer." The report suggests that the best value for money would be the cheapest ZEAL or failing that the cheapest BRANNAN.

NEWS IN PICTURES



425 YEARS' SERVICE: A total of 425 years' service by seventeen employees of Gillette Industries, Ltd., was recognised recently when presentations of gold wrist-watches took place at the company's Isleworth, Middlesex, factory. In the picture Mr. A. W. J. Grubb, Heston, is seen receiving his award from the company's chairman (Mr. Willis Cooper). Also in the picture are Messrs. F. R. Hampton, G. W. Lingwood, J. Jupp, Cecil Abderhalden (managing director), G. V. Birch, T. Spinks, G. French, H. C. L. Garnett (director-in-charge, Gillette Safety Razor Co.), A. W. J. King and A. A. Scanlan, Mrs. M. Gascoigne, Mr. C. R. Harrington, Miss C. C. Mikesch, Messrs. A. G. Holbrook, J. E. N. Peters (a director), J. F. Malcolm and C. Darby, Dr. E. Calnan (director-in-charge, research, Reading); Messrs. G. Emes (research division, Reading) and R. T. Waring.



RETIREMENT PRESENTATION: Mr. R. H. Mathew (a director of J. F. Macfarlan & Co., Ltd., and of Macfarlan Smith, Ltd.) is congratulated by fellow-director Mr. A. Forsyth on his record of service with the company. With them are Messrs. J. A. Hiddleston, D. Rainy Brown and P. MacKenzie, directors of Macfarlan Smith, Ltd. Mr. Mathew started his career with T. & H. Smith, Ltd., and was with the company for twenty-seven years. After a period with William Ransom & Son, Ltd., Hitchin, he joined the staff of J. F. Macfarlan & Co., Ltd., and was latterly in charge of the company's Elstree establishment. Upon the formation of Macfarlan Smith, Ltd., in October 1960, Mr. Mathew joined the board of that company. At his retirement he was presented with a pair of binoculars by his colleagues in J. F. Macfarlan & Co., Ltd.



STAR SALESMAN: Mr. L. A. S. Johnson receives from Kenneth Horne the "Salesman Of The Year" cup of the proprietary products group of Smith & Nephew, Ltd., Welwyn Garden City, Herts, at the company's conference held in Eastbourne recently.



FORTY YEARS ON (BUT NOT PARTED ASUNDER): Employees of the Griffin & George Group who have completed forty or more years of service with the company photographed with the gold watches they received from Mrs. Gordon Sinclair (wife of the chairman of the Group) during the company's recent annual dinner and dance in London.



SEVEN CERTIFICATES FOR PACKAGING: Messrs. Frank Dellar (centre) (merchandising manager, Gillette Safety Razor Co.); Ernest Tye (left) and Norman Pugh (right), members of the industrial design department of the company, who were together winners of seven certificates of merit in the pharmaceutical and cosmetics section of a recent packaging contest in London. Their entries were a presentation gold-plated executive razor set, a display stand for six adjustable razor sets, a plastic travel case for a shaving kit, an export razor set, a leather traveller-de-luxe shaving set, an easel stand for a Christmas pack of razor blades, and a display stand for six razor sets for export.

NEW PRODUCTS

Pharmaceutical Specialities

Against Skin Inflammation.—A new speciality Medrone Veriderm, issued in 5-gm. tube by Upjohn of England, Ltd., Fleming Way, Crawley, Sussex, is indicated in the treatment of allergic and inflammatory skin conditions.

Palatable Cough Sedative.—Sandoz Products, Ltd., 23 Great Castle Street, London, W.1, announce the introduction of Sancos, a palatable cough sedative preparation containing in each 4 mls 4 mgm. of pholcodine B.P.C.; 0.88 mgm. of menthol; 0.6 mgm. of glycerin; and 4.2 gm. of syrup. The packs are bottles of 2 fl. oz. and (for dispensing) 4 fl. oz. and 2 litres.



A PRESSURISED PACK: Decaspray, the topical aerosol speciality of Merck Sharp & Dohme, Ltd., Hoddesdon, Herts, in the plastic-valved pressurised metal cylinder in which it is issued. On the shelf the valve is protected by a white plastic cap and carton.

Ferrous Iron Drops.—Pleniron liquid has been brought out by Thomas Kerfoot & Co., Ltd., Vale of Bardsley, Ashton-under-Lyne, Lancs, as a companion line to Pleniron tablets. The new presentation in pleasantly flavoured base renders the product specially suitable for administration to children, though equally acceptable to adults. The pack is a dropper bottle containing 30 mls, each ml containing 170 mgm. of ferrous glycine sulphate complex (equivalent to 30 mgm. of ferrous iron); the iron is protected from oxidation.

An Appetite Suppressant.—A new speciality Duromine, described as a "new non-amphetamine appetite suppressant" has been launched by Riker Laboratories, Ltd., Loughborough, Leics. Duromine is intended to enable the active obese patient to achieve a predictable weight loss from a single daily capsule. It contains phenyl-tertiary-butylamine in the form of a long acting ion-exchange resin complex. The packs are bottles of thirty and 300 15-mgm. or 30-mgm. capsules.

Reformulated and Repacked.—Radiol Chemicals, Ltd., 78 Upper Richmond Road, London, S.W.15, are issuing their Radian- α spirit dressing in

a new 2-oz. pack that replaces the previous 1½- and 3-oz. sizes. The pack has been redesigned to bring it into line with the motif used for the rest of the packs in the Radian range, and the formula has been improved by the addition of cinchocaine which, as an analgesic, is claimed to give the patient more rapid relief from pain. Any chemist who wishes to exchange his stock of the old sizes may claim full credit in replacement with the new.

TRADE NOTES

Discontinued.—Lewis & Burrows (Manufacturing Chemists), Ltd., 197 Lyham Road, London, S.W.2, have discontinued issuing Quadrin sugar-coated tablets for the treatment of premenstrual tension, in container of fifty.

A Dispensing Pack.—Merrell-National (Laboratories), Ltd., 20 Savile Row, London, W.1, have introduced a 500-tablet dispensing pack of Tenuate. All packs of the speciality are now being invoiced free of purchase tax.

New Price and New Pack.—Newton, Chambers & Co., Ltd., Thorncliffe, nr. Sheffield, announce a new retail selling price for their Izal medicated toilet tissue roll, which also has had its wrapper redesigned.

British Chemicals and their Manufacturers.—Copies of the 1960 supplement to the 1959 edition of the directory, *British Chemicals and their Manufacturers* have been published and may be obtained from the Association of British Chemical Manufacturers, 86 Strand, London, W.C.2.

Redesigned Packs.—Richard Hudnut, Ltd., Eastleigh, Hants, have redesigned their Light and Bright packs to give them greater display value. The new designs (illustrated) have an overall white background with lettering in red, grey and gold. A full colour illustration of the "Light and Bright girl" used in advertising and promotion is included on the pack. Messrs. Hudnut



have given a new look to their shampoo with egg. There are two types: for normal hair (red and gold label) and for dry hair (blue and silver label).

Bonus Offers

ALLEN & HANBURYS, LTD., Bethnal Green, London, E.2. Haliborange tablets. Three 100-tablet bottles free on order for 3 doz.; four bottles of twenty-five and two of 100 on order for 4 doz. bottles of twenty-five and 2 doz. bottles of 100; eight bottles of twenty-five and one bottle of 100 on order for 8 doz. bottles of twenty-five and 1 doz. bottles

of 100; twelve bottles of twenty-five on order for 12 doz. bottles of twenty-five. Till February 11.

B.G.P. (COSMETICS), LTD., 7 Kensington Church Court, London, W.8. Lip-Cote film for smear-proof lips. Thirteen to doz. on small and fourteen to doz. on large sizes. During February.

BIOMETICA, LTD., Elstree Way, Boreham Wood, Herts, Bu-To. Extra 5 per cent. discount on orders received during January.

BURROUGHS WELLCOME & Co., 183 Euston Road, London, N.W.1. Vasylox drops or spray. Thirteen to doz. on order of three or more complete dozens, separately or mixed.

CUSSENS, SONS & Co., LTD., Kersal Vale, Manchester, 7. Damask-rose, lilac-blossom and linden-blossom talcum powders. Additional 5 per cent. on introductory order. January 2 to March 31.

EX-LAX, LTD., Slough, Bucks. *Ex-Lax*. Ten per cent. on order 40s. and over in return for fourteen-day counter display. *Jests* antacid mint. Bonus cancelled but orders in combination with Ex-Lax chocolate laxative qualify for counter-display discount terms.

HALEX DIVISION, BRITISH XYLONITE GROUP, Highams Park, London, E.4. Halex tooth-brushes, fourteen to doz. on order for 6 doz.; fifteen to doz. on order for 12 doz. Halex combs. Thirteen to doz. on order for 6 doz.; fourteen to doz. on order for 12 doz. Till March 31.

ROSE KIA-ORA SALES Co., Grosvenor Road, St. Albans, Herts. Suncrush lemon barley. 4s. per doz. bonus during January.

Medical Radiography

A TOURING EXHIBITION

"MEDICAL Radiography Today," an exhibition presented by Kodak, Ltd., London, W.C.2, is visiting sixteen centres up and down the country in the New Year. A feature of the exhibition is its collection of outstanding radiographs gathered from fifteen countries. Demonstrations are given of the Kodak continuous drier, and other exhibits include the new extreme-speed Kodak "royal blue" x-ray film. Places and dates are:—

LONDON, Kodak House, Kingsway, W.C.2: January 10.

EXETER, Rougement Hotel, Queen Street: January 17.

SOUTHAMPTON, Royal Hotel, Cumberland Place: January 19.

CARDIFF, Angel Hotel, Westgate Street: January 24.

BIRMINGHAM, Imperial Hotel, Temple Street: January 27.

LIVERPOOL, 3, Adelphi Hotel, Ranelagh Place: January 31.

BELFAST, Grand Central Hotel, 18 Royal Avenue: February 7.

GLASGOW, C.3. Grand Hotel, Charing Cross: February 16.

EDINBURGH, 2, The Caledonian Hotel, Princes Street: February 22.

NEWCASTLE-ON-TYNE, 1, Royal Turk's Head Hotel, Grey Street: February 28.

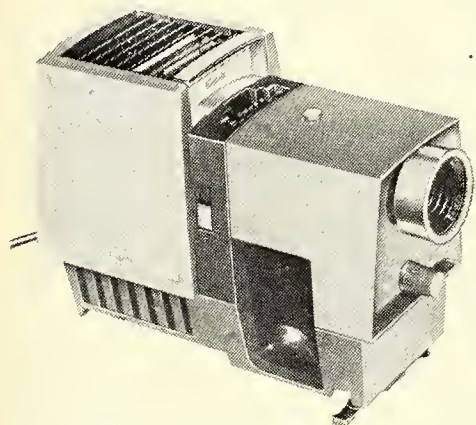
LEEDS, 1, Hotel Metropole, King Street: March 3.

LOUGHBOROUGH, King's Head Hotel, High Street: March 7.

PHOTOGRAPHIC NOTES

An Exhibition Postponed.—The Third Biennale Internationale Photo-Cinema-Optique which should have taken place in Paris from April 15-24, has been postponed until the Autumn.

Cine Reels.—Johnsons of Hendon, Ltd., Hendon Way, London, N.W.4, have introduced two plastic-sided cine reels to take 8-mm. film. They are calibrated in feet and metres and have a capacity of 200 and 400 feet of film respectively.



The Kodaslide 40 projector by Kodak, Ltd., Kingsway, London, W.C.2 — incorporating Ektanon lens f/3.5 with fingertip focusing, rapid slide-changer and built-in collection box for used (2 x 2-in.) slides. It takes a 150-watt lamp and gives a screen image 30 x 40-in. at 10 ft. The model is finished in deep blue-green and grey.

A Pocket Miniature Camera.—J. J. Silber, Ltd., 40 Lamb's Conduit Street, London, W.C.1, are distributing the Penti miniature camera, taking twenty-four exposures, 18 x 24 mm. Essential features include a Trioplan f/3.5 30-mm. lens; aperture range f/3.5 to f/22; shutter speeds up to 1/125 sec., and a quick-wind plunger to reset the film.

Movie Splicer.—The Presstape movie splicer manufactured by Kodak, Ltd., Kingsway, London, W.C.2, affords a quick and easy method of making long-lasting splices for 8-mm. and 16-mm. cine films. The splicer utilises perforated transparent adhesive tape. The pressure-sensitive tape is applied to both sides of the film over the centre of the cut made by the splicer blade, forming a butt joint. A package containing ten 8-mm. and ten 16-mm. tapes is supplied with each outfit. Additional Presstapes in 8- or 16-mm. size are available in packets of twenty.

Dental X-ray Fixer.—The Ilford rapid dental x-ray fixer of Ilford, Ltd., Ilford, Essex, is supplied as a concentrated liquid for dilution. It is supplied in 16-oz. quantities that may be made up to $\frac{1}{2}$ gall. of working solution without measuring. Fixation is complete in 2½ minutes, assuming fresh fixer and a temperature of 68° F. (20° C.). The amount of film which may be fixed in any given quantity of this solution will vary with the type of film and the proportion of undeveloped silver salts left after development. As a guide, about 4,000 sq. in. of double-sided dental film may be fixed by one bottle ($\frac{1}{2}$ gall. working strength) of fixer. It keeps for at least one year.

NEW YEAR HONOURS

THE following awards are included in the New Year Honours list published on December 31, 1960.

Baron.—SIR ALEXANDER FLECK (chairman, Advisory Council on Research and Development, Ministry of Power, and of the Nuclear Safety Advisory Committee).

Knights Bachelor.—DR. C. H. ANDREWES (deputy director, National Institute for Medical Research). MR. G. E. BEHARRELL (chairman, Dunlop Rubber Co., Ltd.). MR. J. N. RITCHIE (chief veterinary officer, Ministry of Agriculture). DR. B. W. WINDEYER (Professor of Radiology, London University, Dean of Middlesex Hospital Medical School).

Companion of Honour (C.H.).—LORD LIMERICK (chairman, Medical Research Council).

Knight Commander of the Bath (K.C.B.).—SIR RICHARD ROYLE (Permanent Secretary, Board of Trade).

Commanders of the Order of the British Empire (C.B.E.).—MR. A. V. MARTIN (chairman, Sheffield Regional Hospital Board). MR. G. E. WATTS (principal, Brighton Technical College).

Officers of the Order of the British Empire (O.B.E.).—MR. J. M. ALEXANDER (managing director, A. J. Siris Products, Ltd.). MR. J. BLACK (works manager, Mossend, Imperial Chemical Industries, Ltd.). MR. R. S. ROGERS (Principal Officer, Ministry of Health, Northern Ireland).

PERSONALITIES

MR. GEORGE I. RUSHTON, M.P.S., 53 Westbourne Road, Birkdale, chairman and managing director of Timothy Whites & Taylors, Ltd., has been named by Royal Birkdale golf club as captain-elect to take over in February.

COUNCILLOR G. G. HAMMOND, B.Sc., M.P.S., F.R.I.C., managing director, Bradley & Bliss, Ltd., has been appointed chairman of the health committee of the Reading Borough Council. Mr. Hammond has served on the Reading Council for nine years.

MISS G. A. SHUTTLEWORTH, F.P.S., who for the past twenty-five years has been chief pharmacist at St. Andrew's Hospital, Bow, London, retired on December 31, 1960. At their recent meeting, members of the Bow Group Hospital Committee presented her with a radio set.

MR. HERBERT STANDISH, M.P.S., 810 Liverpool Road, Ainsdale, chairman of H. Standish (Chemists), Ltd., and of Bootle Times, Ltd., has been named captain-elect of Southport and Ainsdale golf club. A former president for many years of the Liverpool Golfers' Alliance, Mr. Standish is a past-president of Liverpool Press and also a past-president of Bootle Rotary clubs.

MR. C. W. S. TAYLOR retired on December 31, 1960, from the post of departmental manager of CIBA Laboratories, Ltd., Horsham, Sussex, after thirty-seven years with the organisation. At a farewell ceremony in the factory on December 23, he was presented by the chairman (Sir Arthur Vere Harvey) with a silver tankard from the company, and by the general sales mana-

ger (Mr. C. H. Smith), with an antique bureau and an electric clock on behalf of his many friends at CIBA. Mr. Taylor took his degree in chemistry at Edinburgh University in 1922, and joined the organisation in 1924 as a representative in the pharmaceutical department of the Clayton Aniline Co. After the formation of CIBA Laboratories, Ltd., as a separate company in 1934, he was appointed the company's first sales manager. In 1949 he became head of the medical department formed then to expand clinical research trials. More recently he was appointed veterinary products manager.

DR. HARUAKI YAJIMA, assistant research professor of biochemistry, University of Pittsburgh, U.S.A., and a member of the hormone research team responsible for the synthesis of ACTH (see C. & D., December 31, 1960, p. 784) is a Member of the Pharmaceutical Society of Japan and a Fellow of the Chemical Society. Dr. Yajima received his undergraduate and doctorate degrees in pharmacology from Kyoto University. He served as a research associate at the University of Osaka School of Pharmacy before becoming associated with the University of Pittsburgh.

DR. KLAUS HOFMANN, whose research group at the University of Pittsburgh School of Medicine recently announced the synthesis of ACTH (C. & D., December 31, 1960, p. 784), is chairman of the school's biochemistry department. He entered the Rockefeller Institute for Medical Research in 1938, two years after graduating from the Federal Institute of Technology, Zurich, Switzerland. In 1940 he moved to Cornell Medical College, where he worked on the isolation and structure of biotin. Subsequently he served for two years as a scientific guest of CIBA Pharmaceutical Products, Inc., Summit, N.J., before joining the staff at Pittsburgh in 1944 as an assistant professor. Dr. Hofmann is the author of over 100 scientific papers dealing with steroid hormones, terpenes, vitamins (biotin and oxybiotin), vitamin analogues, polypeptides, proteolytic enzymes, bacterial fatty acids, and synthetic pituitary hormones. In 1953, he published a monograph entitled "The Chemistry of the Imidazoles." He is a member of the American Chemical Society, as well as the American Association for the Advancement of Science and the Swiss Chemical Society.

OVERSEAS VISITS

DR. G. RIEVESCHL, jun., who is director of the commercial development division, Parke-Davis & Co., Detroit, U.S.A., visited the Hounslow, Middlesex, offices of Parke, Davis & Co., Ltd., while on a forty-eight-hours' stay in Britain following a Continental tour. He was accompanied by the American artist, Mr. Robert Thom, who has been responsible for the series of "History of Medicine" and "History of Pharmacy" paintings. Dr. Rieveschl was previously a member of the company's research staff and during that time was responsible for the original laboratory work on Benadryl.

DEATHS

BAYNE.—On December 29, Mr. Charles Percival Bayne, 49 Parkside, Jedburgh, Roxburghs. Mr. Bayne qualified as a chemist and druggist in 1910.

DAVIES.—On December 15, 1960, Mr. Charles Davies, M.P.S., 51 Thompson Street, Barry Dock, Glam., aged seventy-seven.

HART.—Recently, Mr. John Frederic Hart, F.P.S., Man of Ross House, Ross-on-Wye. Mr. Hart qualified in 1920.

HAWORTH.—On December 14, 1960, Mr. James Peter Haworth, M.P.S., 28 Kendal Avenue, Layton, Blackpool, Lancs, aged sixty-eight.

INGLIS.—On December 18, 1960, Mr. Samuel Inglis, M.P.S., 5 Boyd Street, Prestwick, Ayrshire. Mr. Inglis qualified in 1913.

KIRBY.—On December 18, 1960, Dr. Paul Ellis Rustat Kirby, M.R.C.S., L.R.C.P., for thirty-five years a director of H. & T. Kirby & Co., Ltd., Newman House, Belton Road, Willesden Green, London, N.W.2, and chairman of the company from 1937 until August 1960. Dr. Kirby was a grandson of the founder of the business. He is survived by a widow and a son and daughter.

MIDDLEMISS.—Suddenly, on December 27, 1960, Mr. Arthur Middlemiss, M.P.S., 134 The Avenue, Sunbury-on-Thames. Mr. Middlemiss qualified in 1920.

ROGERS.—On December 19, 1960, Mr. Cyril Arthur Rogers, M.P.S., Guyscliffe, Station Road, Herne Bay, Kent. Mr. Rogers qualified in 1920.

SWINDLE.—Suddenly, on December 31, 1960, Mr. Noel Swindle, M.P.S., 16 Delph Road, Merley, Wimborne, Dorset, aged sixty-seven.

TODD.—On December 13, 1960, Mrs. Mary Elizabeth Todd, M.P.S., 10 Heath Mansions, The Mount, Hampstead, London, N.W.3. Mrs. Todd qualified in 1926 and was until recently the pharmacist at the Women's Hospital, Soho Square, London.

COMPANY NEWS

Previous year's figures in parentheses

HORLICKS, LTD.—Dr. Ronald Britton (head of the pharmaceutical division) and Mr. Michael Clarke (company secretary) have been appointed to the board.

T. & H. SMITH, LTD.—Mr. John S. Cuthbert (secretary) has been appointed a director with effect from January 1.—Mr. V. W. Thomson has been appointed secretary with effect from the same date.

METAL BOX CO., LTD.—Sir Robert Barlow retired from the chairmanship on December 31, 1960. He has been appointed honorary president of the company. Sir Robert has also retired from the chairmanship of the Metal Box Co. Overseas, Ltd. He remains a director of both companies, in which Sir Harold Roxbee Cox takes his place as chairman.

BORAX (HOLDINGS), LTD.—The company announce that their American operating company, United States Borax

and Chemical Corporation, achieved record sales and earnings for the year ended September 30, 1960. Sales amounted to \$66,654,174 (\$62,191,620), net income, \$6,920,209 (\$6,048,249). Research expenditures by the American company for the year reached a new peak of \$1,652,575, with principal emphasis in boron compounds.

COOPER, McDOUGALL & ROBERTSON, LTD.—Mr. W. E. O. Walker-Leigh (managing director) retired from the board on December 31, 1960. He has been appointed executive chairman of the Argentine subsidiary, Productos Veterinarios Cooper, S.A.I.C., and will also act as Counsellor for the parent company's other South American interests. Mr. C. M. Carr has been appointed sole managing director, and Dr. D. W. Adamson (previously an alternate director), has been appointed a director.

Bids and Deals

ARTHUR GUINNESS, SON & CO., LTD., who two months ago acquired a 60 per cent. interest in Crookes Laboratories, Ltd., have diversified their activities still further by acquiring a controlling interest in K. G. CORFIELD, LTD., co. Antrim, Northern Ireland, makers of Periflex cameras, etc.

FISONS, LTD., have made a £6½-million bid for EVANS MEDICAL, LTD. The offer is of one £1 Fisons' share (worth 45s. 3d.) and 30s. cash for every three Evans 5s. Ordinary. Preference holders are offered four 4½ per cent. £1 Cumulative Fisons' Preference, plus 3s. cash for every £3 of 6 per cent. Cumulative Preference in Evans. The directors of Evans Medical are considering the offer and advise shareholders to take no action meanwhile.

DISTILLERS CO. (BIOCHEMICALS), LTD.—The company has signed an agreement with SPOFA—the Czechoslovak pharmaceutical organisation—under which both parties will collaborate in the research and development of a new drug "which appears to possess remarkable characteristics including some properties which may be of help in the treatment of certain types of leukaemia." The company say that the process of manufacture, which is not yet completely established, employs fermentation techniques in which field the Distillers group have wide experience. They add: "The research is only at a very early stage and the Distillers Co. has no intention of marketing the drug either direct or through any other organisation until it has been thoroughly proved in clinical trials carried out in collaboration with the medical profession."

BUSINESS CHANGES

MARKEM (U.K.), LTD., have opened a sales and service office at 24 Brownfields, Welwyn Garden City, Herts.

The title of the Boehringer Products division of Pfizer, Ltd., has been changed to the Boehringer Ingelheim division of Pfizer, Ltd.

BRADLEY & BLISS, LTD., are opening a branch at Waddon Marsh

Way, Croydon (telephone: Municipal 2500) on January 9.

RENTOKIL PRODUCTS, LTD., is the new title adopted by Rentokil Ltd., Leatherhead, Surrey, to distinguish it from the various pest control servicing companies which form the Rentokil group.

AUTOPACK, LTD., are no longer operating from their Birmingham address, having transferred to their recently built factory at Spring Lane, Malvern. Worcs (telephone: Malvern 1651).

Appointments

KELDON, LTD., Wadsworth Road, Perivale, Middlesex, have appointed the following representatives to their sales staff: Mr. G. Holmes, in Lancashire and Westmorland; Mr. R. D. Bruce, in Wales and West Midlands, and Mr. K. H. Lambert, in the Eastern Counties and Middlesex.

ARMOUR PHARMACEUTICAL CO., LTD., Hampden Park, Eastbourne, have made the following appointments to their representative staff: Mr. W. Gilmour (for Liverpool, St. Helens, Widnes, Birkenhead and Wallasey); Mr. B. G. Whiles (Black Country, Potteries); Mr. M. Stafford (Surrey, Sussex); Mr. S. Williams (Cardiff, Monmouth, Newport (Mon.), Swansea, Barry).

NEW COMPANIES

P.C.—Private Company; R.O.—Registered Office

HAZELMERE PHARMACY, LTD. (P.C.).—Capital £500. Directors: Norman H. Seymour and Montague E. Seymour, M.P.S. R.O.: Amer-sham Road, Hazelmere, Bucks.

E. PETYT, LTD. (P.C.).—Capital £100. To carry on the business of chemists, druggists, etc. Directors: Phyllis Petyt and Robert S. Escott, M.P.S. R.O.: 48 Whetley Hill, Bradford, 8.

R. S. F. GUY, LTD. (P.C.).—Capital £100. To carry on the business of chemists, etc. Directors: Raymond S. F. Guy, M.P.S., and Charlotte Guy. R.O.: 19 Gildredge Road, Eastbourne.

H. N. BROOKE, LTD. (P.C.).—Capital £10,000. To acquire the business carried on by Harold N. Brooke, F.P.S. Directors: Harold N. Brooke, F.P.S., and Kathleen Brooke, M.P.S. R.O.: 7 Wood Street, Doncaster.

M. MURPHY (CHEMISTS), LTD. (P.C.).—Capital £1,000. To carry on the business of chemists, etc. Directors: Michael Murphy and Johanna Murphy. R.O.: 105 Trafford Road, Salford, 5.

FRANK WILLIAMS (ACTON), LTD. (P.C.).—Capital £5,000. To carry on the business of dispensing chemists, etc. Directors: Arthur H. F. Williams and Clarice Williams. R.O.: 131 The Vale, London, W.3.

D. O. EVANS, LTD. (P.C.).—Capital £3,000. To carry on the business of manufacturing and general chemists, etc. Directors: David O. Evans, M.P.S., and Edith M. Evans. R.O.: 406 Bank Chambers, 329 High Holborn, London, W.C.1.

STOYLES THE CHEMISTS OF BECKENHAM, LTD. (P.C.).—Capital £2,000. Directors: William I. Shipley, M.P.S., Irene E. F. Shipley and Harold Fothergill, M.P.S. R.O.: 16 Station Approach, Hayes, Kent.

YATES BROS. CHEMISTS, LTD. (P.C.).—Capital £1,000. To carry on the business of Walter R. Southall, M.P.S., at 195 Chorley Road, Swinton, Lancs, etc. Directors: Walter R. Southall and Mabel G. Southall.

READ'S CHEMISTS (MILE CROSS), LTD. (P.C.).—Capital £1,500. To carry on the business of chemists, photographers, etc. Directors: Dorothy G. Read and Ashley F. Breeze, M.P.S. R.O.: 289 Aylsham Road, Norwich.

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European Commerce in 1961

THE beginning of a new year is traditionally a time for taking stock—stock not necessarily of goods left unsold on the shelves, but of the achievements and failures of the year just ended. Traditionally, too, it is a time for making resolutions, and one resolution of all successful businesses is to see that the causes of previous failures are not repeated.

At national level one of the failures of 1960 that must be recorded was the inability of the United Kingdom Government (and of the European Free Trade Association) to find a way to trade with the Common Market countries on equal terms with the six members. On January 1 those members made their third 10 per cent. reduction in internal tariffs, and for the first time made a move towards establishing a common external tariff towards non-member countries.

It was chiefly the insistence of the Common Market to make such a common external tariff that precluded the United Kingdom joining the pact, for to do so would have meant the abandonment by the U.K. of the Imperial Preference System. By the same token British exports will now become most effectively challenged in the hitherto low-tariff countries, namely Western Germany, Belgium and Holland because they will attract higher tariffs at a time when the tariff rates between member countries have gone down. The three Common Market countries mentioned above each took over £½ million worth of prepared medicines in 1959. That level was surpassed in the first eleven months of 1960 but in the face of the new barriers, it will require a considerable effort on the part of all exporters in 1961 if the current trade volume is to be maintained, let alone increased.

Overseas Trade in November 1960

WITH November's exports of drugs, medicines and medicinal preparations from the United Kingdom at the record monthly level of £4,569,970, the total for the first eleven months of 1960, at £40.26 millions, has already passed the total for the whole of 1959 which in itself was a record. The successful result for 1960 was largely due to trading in the first quarter of the year. There is also little doubt that the recovery noted in the latest month's figures, a breakdown of which is given in the first table, can be accounted for by the clearance of held-up shipments in previous months through the tally clerks' strike in the London

EXPORTS						VALUE
						£
Drugs, medicines, medicinal preparations (total)	...	...	...	...	...	4,569,970
Vitamins	...	...	...	...	...	242,795
Penicillin salts	...	...	...	...	...	42,529
Penicillin injections	...	...	...	...	...	47,526
Penicillin tablets, ointments, etc.	...	...	...	...	...	87,509
Antibiotics other than penicillin	...	...	...	...	...	578,170
Alkaloids	...	...	...	...	...	146,517
Aspirin	...	...	...	...	...	121,690
Antihistamines	...	...	...	...	...	61,660
Antipaludics	...	...	...	...	...	176,130
Barbiturates	...	...	...	...	...	65,611
Liver extracts	...	...	...	...	...	9,187
Ointments and liniments	...	...	...	...	...	170,562
Insulin	...	...	...	...	...	47,044
Hormone and gland preparations	...	...	...	...	...	109,361
Sulphonamides	...	...	...	...	...	125,764
Proprietary medicines	...	...	...	...	...	1,397,647
Other medicines, unclassified	...	...	...	...	...	1,097,707
Glycerin	...	...	...	...	...	41,937
Acetone	...	...	...	...	...	81,310
Citric acid	...	...	...	...	...	51,543
Salicylates	...	...	...	...	...	22,218
Perfumery and toilet preparations	...	...	...	...	...	
Lipstick face powder, etc.	...	...	...	...	...	366,721
Dentifrices	...	...	...	...	...	159,331
Toilet soaps	...	...	...	...	...	303,329
Synthetic detergents	...	...	...	...	...	569,986
IMPORTS						£
Vitamins	...	...	...	...	...	51,785
Antibiotics	...	...	...	...	...	67,381
Alkaloids	...	...	...	...	...	52,108
Proprietary medicines	...	...	...	...	...	153,895
Unclassified medicines	...	...	...	...	...	127,216
Borax	...	...	...	...	...	174,820
Iodine	...	...	...	...	...	5,162
Menthol	...	...	...	...	...	43,658
Essential Oils	...	...	...	...	...	
Bergamot	...	...	...	...	...	14,179
Citronella	...	...	...	...	...	45,910
Clove	...	...	...	...	...	12,981
Geranium	...	...	...	...	...	40,234
Lavender	...	...	...	...	...	53,678
Lemon	...	...	...	...	...	29,548
Orange	...	...	...	...	...	19,544
Peppermint	...	...	...	...	...	153,813
Unclassified	...	...	...	...	...	254,147

docks. December's results are likely to reflect a more stable picture.

Analysis of the destinations to which the drugs and medicines went shows that Australia remained outstandingly the best market (at £414,886) followed by Nigeria (at £315,257). Shipments to Canada at £258,171 improved to bring the Dominion into fourth place after New Zealand (£295,417). Purchases by the Irish Republic in November were valued at £203,875 (against £260,037 in November 1959).

Imports of prepared medicines (see above) which totalled £452,385, were less affected by the strike because of differences in timing in the receipt and processing of export documents.

A New Price-list Facility

THERE is good news this week for those many users of C. & D. Quarterly Price List who have written in asking for the weekly Cumulative Price List to be put at the centre of the C. & D. issue so that it could be readily separated out from the remainder and inserted in the Quarterly Price List. So long as the cumulative list formed part of the issue itself it was not possible to meet their wishes without endangering the up-to-dateness of the changes given, especially as the middle of the editorial matter

does not invariably or necessarily coincide with the centre of the book. From this week, however, the cumulative list is being "thrown in" to the issue as a separate supplement of fractionally smaller page size. It may be left with the issue or transferred to the Quarterly Price List according to the convenience of the user. After its brief life of service in that way the cumulative list of one week is thrown away as each successive one appears. Although the change may involve extra expense on occasion to the publishers, they

hope that any such loss will be more than offset by the greater goodwill the list renews each week among subscribers. We hope that other subscribers with ideas to put forward for improving the service will be encouraged to note that, even if suggestions are not at once adopted, they are invariably given full consideration and, if found acceptable, given effect at a minimal or rather longer interval according to the nature of the improvement, and the many problems that are inherent in space and typography.

HOSPITAL PHARMACY FORUM OBJECTIVES FOR 1961

THE start of a New Year has about it an invitation to optimism, even when the circumstances, objectively assessed, are not propitious. The mood itself may create a buoyancy and a will-to-achieve that is stronger than the logic of the situation. Thus, in spite of the tensions and turmoil of the world scene, with its permanent overtone of impending catastrophe, men look at 1961 with a sense of new beginnings and brighter hopes. Against such a background our domestic preoccupations may seem trivial, but it is the daily continuance of such trivialities that constitutes our life. Though the great affairs of the world are always intruding themselves upon our consciousness, it is the continuum of daily activity that occupies most of our time. We in hospital pharmacy need not apologise for looking back over the past year and forward to the future.

1960 in Retrospect

Nineteen-sixty, like the proverbial curate's egg, was good in parts. It started with a substantial salary increase and the recognition of the Group Pharmacist. Most pharmacists received a welcome refresher in the form of back pay, and those fortunate enough to be in Group posts enjoyed a quite substantial allowance. Even so, the general increase has not been sufficient to attract new entrants to the hospitals. With the ending of the call-up for military service, it might have been hoped that a significant number of newly qualified men would opt for hospital service. The new salary scale has not proved sufficient to attract them, and it appears likely that, from Easter onwards, we shall experience the same difficulties as in past years in maintaining an adequate pharmacy staff. A further disappointment that must be carried forward into 1961 is the unsatisfactory plight of those Group pharmacists who have been denied recognition because there is no other chief pharmacist in the group. The management side of the Whitley Council felt bound by a Ministerial document which precluded such recognition. How the document came to be written remains a mystery, and is no credit to the draftsmen in the Ministry. In many cases the "singletons" are the Group chiefs who have most effectively carried out the co-ordinating functions of their office, and it is not surprising that they feel aggrieved by the present situation, which denies them financial reward.

The end of 1960 brought to a close the long battle that has been waged between the staff organisations and the Ministry on the question of fees for locums. Nobody likes the locum system. If the staffing system were adequate, their employment would be unnecessary except in genuine emergency. As things are, considerable numbers of locums have to be engaged every year to enable departments to keep open. The best of them are the "regular" locums—often married women who were formerly in the service but who no longer look for full-time work. There are others who dabble in hospital work but who are not prepared to accept appointments at the standard salary so long as there are enough locum jobs to keep them going.

Whatever the case, it is frustrating to have to close down sections of the work in a department, or to cancel one's holiday arrangements through lack of staff. Sufficient freedom of action must exist to enable locums to be engaged without a great deal of formal correspondence between the hospital and the Ministry. The new agreement on locum fees goes some way to meeting that need. For the first time locums may be engaged for continuous employment up to eight weeks at an agreed salary without reference to the Ministry. Also for the first time there is a differential for pharmacists who are locum-chiefs. The new scales (see *C. & D.*, November 5, p. 559) are still below the usual fees for locum duties in retail, and are therefore unlikely to divert pharmacists from that field to the hospitals, but at least they have the merit of enabling pharmacists to arrange their staffing for the summer months well ahead of the time.

The increases in annual leave recently awarded bring pharmacists into line with other professional groups in the Government service. The junior members gain most from the new agreement, for the senior people (Categories IV and V) are already enjoying the maximum leave allowances. Thus, although the negotiations have not been an unqualified success, some tangible advantage has been gained.

Nineteen-sixty-one lies before us, and there are certain objectives that demand to be achieved. The most important and immediate is to obtain justice for the "singleton group chiefs." It is also urgent that some improvement should be obtained for deputy-chiefs, especially for those who are in hospitals where the chief's duties outside the department make special demands on the deputy. It is becoming increasingly obvious that there is a dearth of men available and suitable for such posts, and only a substantial salary increase will make those posts attractive.

Need for Man-power Survey

Probably the requirements for the future well-being of the profession are not confined to increasing the salaries. It is nearly two years since the Minister was asked to set up a small independent committee to review the man-power situation in hospital pharmacy. His rejection of such advice has not altered the need for the survey. It may turn out that such a survey will take place as part of the wider investigation which the Pharmaceutical Society is to undertake in conjunction with the Ministry. From time to time the impression has been given that the Minister believes there could be a much greater use of assistants-in-dispensing, which would ease the staff shortage. Undoubtedly there is a place for such assistants, but the long-continued failure to recruit pharmacists has surely already forced the employment of them almost to capacity in many places. The only way in which that matter can be resolved is to make a survey of the real needs and establish the correct ratios of staff according to responsibility, qualification, etc., in each area. The effective use of the Group pharmacists' powers and responsibilities would

correct any imbalance, but unfortunately there are still too many groups in which no group appointment has been made because of a fear that bad feeling would be created if one chief rather than another were chosen for the appointment. That seems a singular weak attitude on the part of the H.M.C.s concerned, and reflects no credit on those hospital pharmacists who have shown resistance to such appointments.

Not only is an administrative new look needed; it is high time also that a greater number among us undertook some investigational work to stretch our own minds and ingenuity and to maintain interest in the technical develop-

ments in pharmacy. The Pharmaceutical Society's Department of Pharmaceutical Sciences is looking for the names of pharmacists willing to undertake research projects. That need not involve expensive equipment and much of it is within the scope of hospital pharmacists who are really interested. It would be encouraging to see evidence of such interest among the younger members of the hospital service, and it would enhance the standing of the workers concerned, as well as that of hospital pharmacy generally, if a number of them could thereby qualify for Fellowship of the Society. Such activity would be an excellent antidote to the depression and indifference that are so easily accepted.

STERILISATION OF EYE-DROPS

Methods and apparatus suitable for the pharmacy

IN recent years attention has been drawn to the possibility of transferring pathogenic organisms to the eyes of patients through infected eye-drops. Consequently it is of the utmost importance that these solutions should be sterile and that provision should be made to protect them against bacterial contamination during the entire period of their use.

Sterilisation of the solutions by autoclaving is not practicable, since many of the drugs commonly used in ophthalmology are thermolabile. The addition of a preservative to eye-drop solutions has been the practice for many years, solution for eye-drops having become official in the B.P.C., 1949. The solutions were directed to be prepared with aseptic precautions and to be dispensed in previously sterilised containers. Solution for eye-drops affords protection

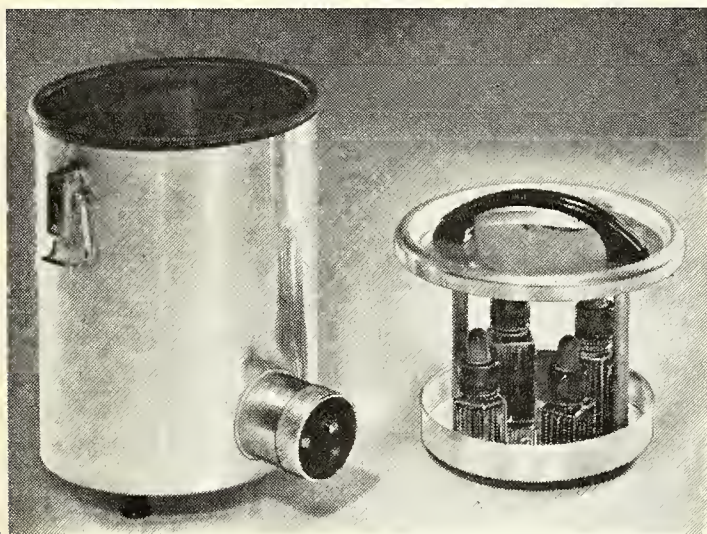
concentrations required for bactericidal activity all are too irritant for ophthalmic use. Phenylmercuric nitrate is the mercurial compound most commonly employed for this purpose. In the range of concentrations 0.001 to 0.004 per cent. it is fungicidal and bactericidal and is non-irritant and non-toxic.

Benzalkonium chloride and cetrimide have both been advocated as bactericides for eye-drops at a concentration of 0.01 per cent. There is some doubt, however, as to their innocuity to the eye and they should certainly not be used in preparations which are likely to find access to the anterior chamber during operation. Their efficiency is also affected by changes of pH.

Among the alcohols, chlorbutol 0.5 per cent. is reliable but, since it is volatile, the concentration may fall below an effective level when a bottle is repeatedly opened over a somewhat lengthy period of time. In addition it is important to ensure that the drops are at no time cooled sufficiently to provoke crystallisation as the crystals are intensely irritant to the conjunctiva. Phenyl ethyl alcohol is effective in a concentration from 0.3 to 0.6 per cent., and no evidence has been produced of damage or irritation to the eye.

The B.P.C., 1959, has retained solution for eye-drops as the solvent in most aqueous eye-drops but specifies that, wherever possible, the drops should be heated to 98-100° C. for thirty minutes in the final container. In the case of fluorescein eye-drops phenylmercuric nitrate 0.001 per cent. has been adopted as the bactericide to provide a greater degree of safety against the bacterial contamination frequently found with this drug.

Drops that will not withstand heating such as silver protein eye-drops and penicillin eye-drops are directed to



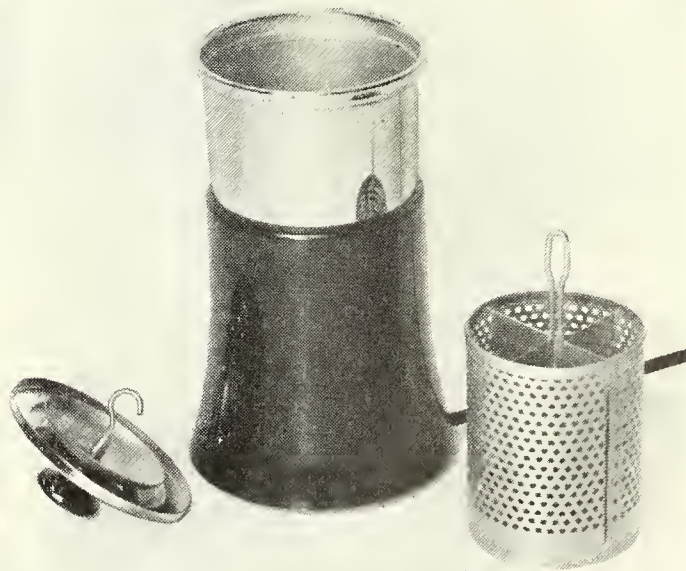
The "cruet" is a feature of the steriliser designed by Jacob White & Co., Ltd.

against the development of moulds but is not entirely satisfactory against bacteria, especially *Pseudomonas pyocyanea*, since it contains only a total of 0.033 per cent. of methyl and propyl hydroxybenzoates. A minimum concentration of about 0.1 per cent. of the hydroxy-benzoate esters is required for bactericidal action at room temperatures; higher concentrations produce some discomfort and stinging of the eyes.

Ideal Bactericide

The ideal bactericide for ophthalmic drops must be soluble, stable and compatible with the active medicament. It should preferably be non-volatile and must be non-irritant to the epithelia and the cornea and conjunctiva. Many substances have been suggested for this purpose, including members of the following groups:—Phenols, mercurials, alcohols and quaternary ammonium compounds.

Of the phenolic compounds cresol, chlorocresol and phenol itself have been suggested but in the accepted con-



The Surquet steriliser has an insulated plastic jacket.

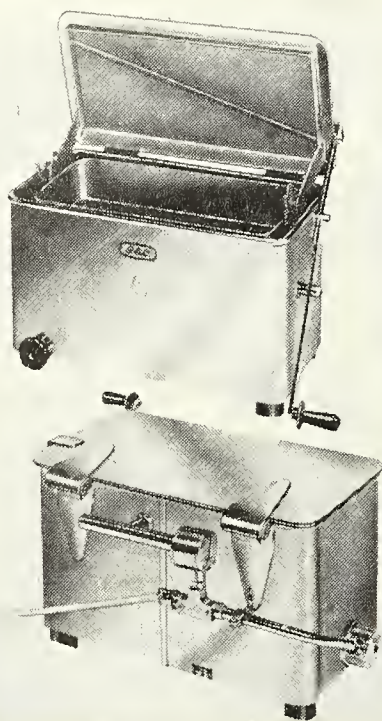
be prepared with aseptic precautions and to be dispensed in previously sterilised containers.

The most suitable container for eye-drops is the screw-cap dropper bottle, the cap of which affords an effective seal against contamination and evaporation. The bottles should be of amber neutral glass and fitted with droppers of such length as almost to touch the bottom of the vial. It is important that the rubber teats should be examined to ensure that there is no free talc adhering to them, since contamination from that source has recently been encountered. Both the rubber teat and the plastic cap must, of course, be of grades that will withstand any heat processes used in sterilisation. It is usually found necessary to loosen the bottle caps slightly before sterilising so as to avoid "ballooning" of the teats.

Only one steriliser has been designed specifically for the "steaming" process for eye-drops. Manufactured by JACOB, WHITE & CO., LTD., 324 Upper Street, Islington, London, N.1, it is made of spun aluminium and has an anodised finish. The 800-watt element provides reasonably quick boiling from cold, and an adequate volume of steam to ensure sterilisation. The container is 6½ in. in diameter and 8½ in. high. The lid, insulated handle, and "cruet" are combined, enabling the bottles to be lifted out without difficulty at the end of the sterilising process. The rim of the container is covered in rubber, and the lid may be fastened during steaming. Excess steam escapes through holes in the lid which, because of their small size, have a tendency to increase the pressure inside the container and ensure final sterility of the solutions. A safety cut-out protects the element against damage in the event of its being allowed to boil dry. The steriliser, which is probably the cheapest on the market, is supplied complete with cable and connector.

Other equipment that may be used to sterilise eye drops has been primarily intended for the sterilisation of surgical instruments. It includes the Surqualet steriliser model 630, manufactured by SURGICAL EQUIPMENT SUPPLIES, LTD., Westfield Road, London, W.3. The basket normally supplied with it has an internal depth of 3½ in., a diameter of 2½ in. and is divided into four nearly equal compartments. That limits the size of bottle which can be accommodated, but the makers can supply a basket with three compartments or the divider may be omitted altogether. The apparatus is also provided with a safety cut-out.

Both companies, as well as the GENERAL ELECTRIC CO., LTD., Magnet House, Kingsway, London, W.C.2, manufacture larger instrument sterilisers. Some incorporate a fully automatic heat control which ensures that immediately boiling point is reached the current input is reduced to what is required to maintain the temperature. In addition to reducing working costs, the economiser reduces the amount of surplus steam produced, with consequent reduction of damage to wall finishes, etc.



The opening mechanism of the G.E.C. steriliser lifts the tray and lid in one operation.

NEW BOOKS

Chemistry and Chemical Engineering

ALAN J. BUNE, B.Sc., *Sunday Times*, 200 Gray's Inn Road, London, W.C.1. 7 x 4½ in. Pp. 104, paper back, 3s. 6d.

THE latest in a series of career books issued by the *Sunday Times* deals, as its title suggests, mainly with industry and research. Some of the important products of the pharmaceutical industry are included in a chapter under Fine Chemicals. A summary of the history and interests of some of the larger employers occupies thirty-four pages.

Hospital Infection: Causes and Prevention

R. E. O. WILLIAMS, M.D., M.R.C.P., R. BLOWERS, M.D., L. P. GARROD, M.D., F.R.C.P., and R. A. SHOOTER, M.D. *Lloyd-Luke (Medical Books), Ltd.*, 49 Newman Street, London, W.1. 8½ in. x 5½ in. Pp. 307. 35s.

THIS is the first book to be published reviewing the entire problem of hospital infection. As such, it is likely to be of considerable interest to hospital pharmacists who are concerned with the work of control-of-infection committees. The first part of the book deals with the epidemiology of hospital infection and describes in some detail the factors concerned with the spread of infection in hospitals. The authors have paid considerable attention to staphylococcal infections, since those have been the source of the greatest concern in recent years. There are, however, chapters dealing with all types of infection likely to occur in hospitals. The second part of the book deals with the practical measures to be adopted in preventing the spread of infection. The chapters of most interest to hospital pharmacists are those dealing with methods of sterilisation by heat and by chemicals. It will surprise some readers to see Tyndallisation still mentioned as a method of heat sterilisation and, perhaps, it is a little unfair for the authors to single out pharmacists as responsible for the use of that process for the sterilisation of solutions of drugs in ignorance of the principles on which the method depends. Surely it was largely due to the work of pharmacists that Tyndallisation was deleted from the British Pharmacopoeia and ultimately replaced by the process of heating with a bactericide. In the chapter on sterilisation by chemicals, the authors have wisely avoided a discussion on the methods adopted for the determination of antibacterial activity. They do, however, mention some of the difficulties encountered, particularly in relation to the quaternary ammonium compounds. Insufficient stress is laid upon the effects of concentration, time and temperature on antibacterial activity. It is surprising to read that liquor formaldehydi chirurgicis is the only solution that will ensure sterility of sharp instruments. Although formaldehyde is a potent and often neglected bactericide, that is surely too sweeping a statement, especially as no immersion time is stated and the solution itself was designed to preserve the sterility of previously sterilised instruments and was not intended to be used as a sterilising agent. The book commendably draws attention to the need for instrument manufacturers to bear in mind the need for sterility in the design of instruments, and whenever possible to use materials that will withstand adequate heat sterilisation processes. The minor criticisms that have been made should not be allowed to detract from the merit of the book as a general survey of the subject. In its presentation of the information the volume is excellent and the extensive references to original work should prove of particular value to those who wish to pursue further one facet of this many-sided problem.—J.W.H.

A PHARMACIST'S ANTHOLOGY

MADDER THAN IMAGINED

From *Squire Lubberly* by Molière

SQUIRE LUBBERLY: What's the meaning of all this ado? What would you have with me?

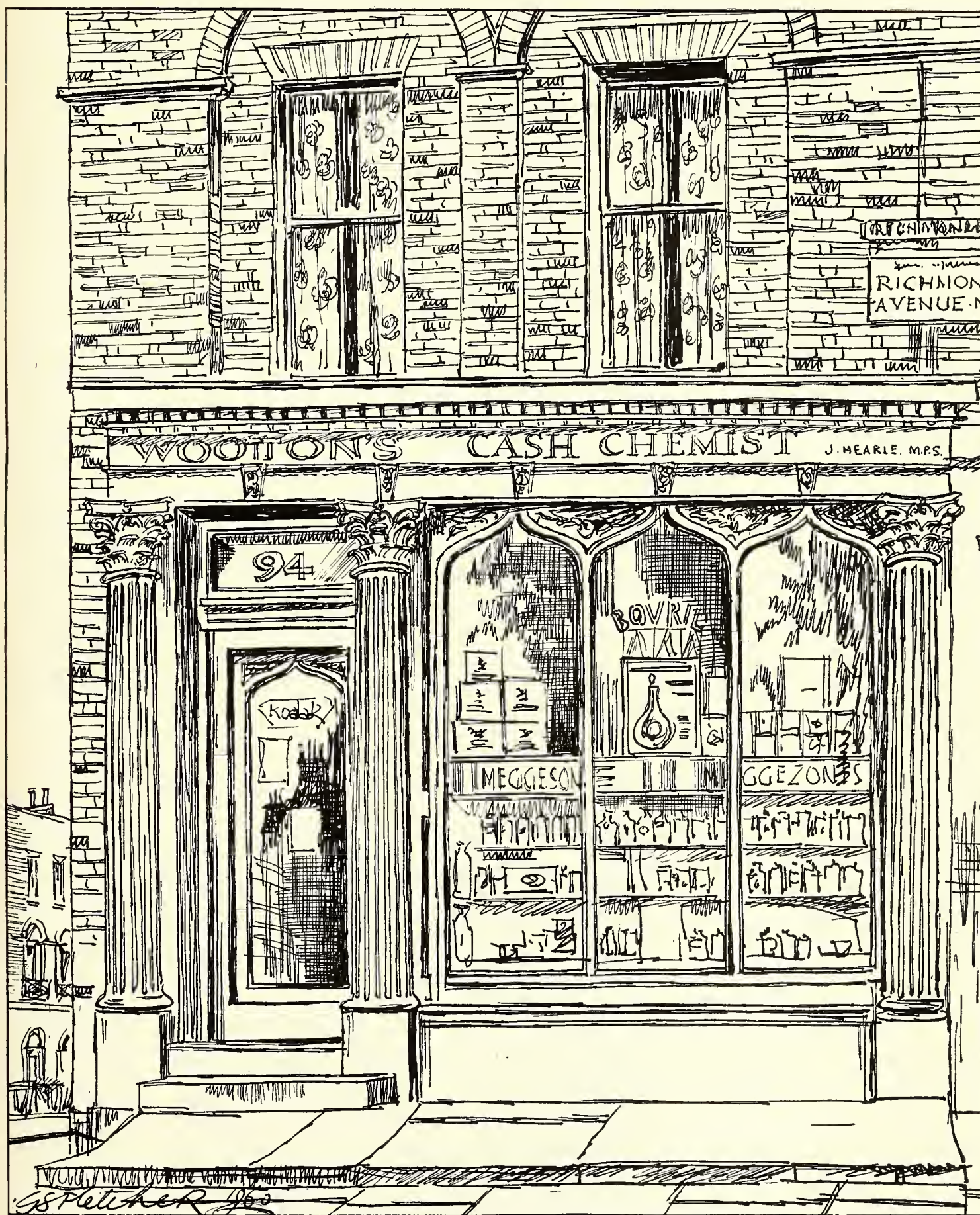
FIRST PHYSICIAN: We'd cure you, according to the orders that were given us.

Cure me?—Ay.

S'death! I'm not sick.—A bad sign, when a patient is insensible of his illness.

I tell you that I'm very well.—We know how you are better than you yourself. We're physicians that see plainly into your constitution.

PHARMACIES OF BRITAIN



THE PHARMACY AT RICHMOND AVENUE, ISLINGTON

Woottons Chemists [proprietor: J. Hearle, M.P.S.] is a fine example of a late Regency or early Victorian pharmacy. The Gothic revival windows and door are in curious contrast with the Corinthian columns. That freakish but delightful combination is often met with in the architecture of the period.

BRANCH AND ASSOCIATION EVENTS

ROMFORD

Christmas Party

THE tenth annual Christmas party of the Romford Branch of the Pharmaceutical Society, held at Collier Row, on December 13, 1960, provided members and their friends with an opportunity to relax before the onset of the extra pressure of "the festive season." The evening was occupied with dancing and games with the added attraction of a display of conjuring.

Hair Tinting

THE art of hair tinting was demonstrated by Mr. F. Walters (Inecto, Ltd.) to members of the Romford Branch of the Pharmaceutical Society, at Gidea Park, on December 5, 1960. Mr. Walters said that the proportion of women who themselves dyed or tinted their hair, as opposed to those who had it done professionally, was approximately 60 per cent., and that the results achieved by the so-called "amateur" had improved to a stage at which his company considered that the vast majority of future sales would come from that source.

WEST MIDDLESEX

Allergic Diseases

DR. F. H. Milner (a director of the Bencard allergy division) spoke on "Allergic Diseases in Man, and their Treatment" at a meeting of the West Middlesex Branch of the Pharmaceutical Society on November 22, 1960. He described methods used to collect and dry pollen from various species of grass, flowering plants, trees, etc., including the collection of animals' hair, household dusts, and the decayed matter caused by dry rot, and the subsequent treatment of those materials preparatory to the preparation of the final product for use in the relief of allergic conditions. Dr. Milner explained that approximately 70 per cent. of the population suffered from an allergy of one form or another, and quoted figures indicating the high degree of success that had been achieved.

NEWCASTLE

N.H.S. Remuneration

"AT one time an application for increased remuneration by the negotiating committee was a matter of discussion and arrangement. Now facts have to be presented which can only be assembled from an inquiry." So said MR. J. WRIGHT (deputy secretary, National Pharmaceutical Union) in addressing a meeting of the Newcastle District and Northumberland Branch of the Pharmaceutical Society on December 8, 1960. A complex questionnaire had been sent out, he said, to a large number of pharmacists representing every type of business. That factual inquiry had delayed discussions for a long time because the response had been so poor—of the order of only 33 per cent. Mr. Wright said that the Ministry of Health, not satisfied with that response, had analysed the figures. The analysis had been completed. Since they referred to 1957, it was obvious that the figures

would have to be revised. They must take into account the increase in "gross profit" consequent on the greater cost per prescription, which the Minister held to represent an increase in remuneration. It was apparent that future attempts to obtain better terms would be futile unless accompanied by facts similar to those obtained from the previous questionnaire. It was doubtful if a postal questionnaire would produce any better results than previously. Personal interviews with a large number of pharmacists might provide the necessary information. Differential payments seemed attractive, but they involved many difficulties. A Government might have a vested interest in the larger firms because prescriptions dispensed there would cost the country less. Mr. Wright said that the drug testing scheme was to be amended, and would shortly differ in fundamentals from the present system. Scripts for proprietary medicines, moreover, would have to be endorsed with the size from which the prescription was dispensed. When asked about remuneration for dead stock Mr. Wright said that the Minister did make some small contribution to that, but that in his opinion it was not enough. Asked about the possibility of an increased container allowance, he said that an approach to the Ministry would be useless unless supported by facts ascertained from an inquiry to determine actual costs.

Regarding increased dispensing fees for eye drops, Mr. Wright referred to an agreed overall average of 14.58d. dispensing fee per prescription, and said that, if the fee for eye drops had been increased, then the fee on other preparations would have to be reduced in order to maintain the average.

Asked if there would be provision for retrospective payment, he replied that there was provision for back payment in the Whitley Council agreements, but it would depend upon the negotiations.

PLYMOUTH

President Backs University Plan

MR. T. REID (president of the Pharmaceutical Society) expressed enthusiasm for the proposed University of Plymouth when he spoke at the annual dinner and dance of the Plymouth Branch of the Pharmaceutical Society held in Plymouth on December 7, 1960. Though nothing definite had yet been announced, he thought there would be a wonderful opportunity for a pharmacy department in the University. Mr. Reid added that members were looking forward to the time when the pharmacy department in the new Plymouth Technical College would be opened. Referring to a report that £72 millions had been spent by the nation on drugs, tablets and prescriptions in one year, which some people seemed to think excessive, he said that the figure was, in fact, much smaller than had been spent on tobacco and alcohol. There should be some rethinking to get things into perspective, "because you cannot gauge good health and people's lives in terms of £ s. d." The lord mayor of Plymouth (Alderman F. J. Stott) caused laughter when he read some chemists' advertisements from an 1837 edition of the *Plymouth, Devonport, and Stonehouse Herald*, but he added, on a more serious note: "In your profession you cannot make mistakes, and that is why it is essential that, in the recruitment of pharmacists, you set your sights high. We are in your hands, but we are proud that, in our new technical college, we can assist in that training." The chairman of the branch (Mr. F. J. Packer) presented £10 10s. each to the lord mayor's Christmas and Pharmaceutical Society's Benevolent Funds. There was a record attendance of over 200 guests, including representatives of the Exeter and Torquay branches, doctors, dentists, and representatives of manufacturers and wholesalers.



ARTIST AND SUBJECT: "Hut," the creator of the C. & D. cartoons, caught by a camera enthusiast while making one, a sketch of Mr. F. W. Adams (registrar of the Pharmaceutical Society).

INSTRUMENTS AND APPARATUS

An Inexpensive Photo-copier.—The new Verifax Bantam copier of Kodak, Ltd., Kingsway, London, W.C.1, brings photo-copying well within the reach of even the smallest business. It makes in one minute five permanent copies of any document up to $8\frac{1}{2} \times 11$ in. in size, whether the original be typed, written or drawn in any colour. The copies are made on inexpensive non-photographic paper and are produced dry and ready for use. Junior members of the staff can quickly learn to operate the few simple controls, freeing typists and senior members of the staff for more important duties.

Laboratory Grinding and Mixing.—Two items of laboratory equipment for the extremely rapid disintegration and mixing of small samples of substances to ultra fine particle size, have been introduced by Glencreston, Ltd., 41 Church Road, Stanmore, Middlesex. Grinding or mixing in the micro mixer mill is effected in small stoppered vials of either 2-mil or 5-mil capacity and made of plastic, stainless or hardened tool steel or agate. The vial is oscillated in a figure-of-8 motion by a built-in motor at 3,200 revolutions per minute. In 15 sec., the normal mixing time, the ball pestle inside the vial strikes about 3,000 blows against the ends of the vial. The standard instrument is fitted with a 0-60-sec. timer. A modified version is available with a 1-hour timer and fan-cooled motor. The company's sample mixer mill deals with larger capacities; it is capable of mixing volumes up to 100 mils.

Analysis by Automation.—Technicon Instruments Co., Ltd., 26 Warwick Road, London, S.W.5, announce that their Technicon AutoAnalyser is being made in Britain. The Auto-Analyser is a new and accurate system of continuous automatic chemical analysis capable of detecting trace substances down to parts per billion to an accuracy of 1 per cent. By automating each step of a chemical analysis (measuring; mixing; purifying, etc.), and integrating them into a continuous flow system, the apparatus provides analysis with exact reproducibility twenty, forty or sixty tests per hour, without human supervision. The system analyses levels of concentration of such material as cyanides; sulphur dioxide; silica; phosphates; iron; chlorides; copper; sulphates; ammonia; sugars and aluminium. It is understood to be in use in hospital laboratories throughout the world for determinations in blood chemistry.

WORLD TRADE

Decimal Coins in Pakistan.—Pakistan switched over to decimal coinage on January 1, keeping two currency units—the rupee and the paise. The rupee continues to be unchanged in value, but is divided into 100 paise instead of 64 pice or 192 pies.

Canadian Foreign Investments.—Two areas of foreign investment will be affected by the special supplementary budget announced recently by Mr.

Donald Fleming, the Canadian Minister of Finance. The Canadian Government has increased to 15 per cent. (from 5 per cent.) the withholding tax on dividends paid by Canadian subsidiaries to their controlling parent firms in other countries. Where existing international agreements limit the tax to less than 15 per cent, they will be re-negotiated. Direct foreign investment into foreign-controlled Canadian subsidiaries totalled \$500 millions in 1959—three-quarters of it from the United States.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

An Account Closed

SIR,—I have written to Phillips Scott & Turner (a copy of which letter I enclose) to inform them that it is my intention to close my account with them. The reasons for this decision are that having taken their product into stock, not only do I find it in several of the local grocers—without, I am given to understand, the knowledge of their local representative—but now it is subject to the grocers' price-cutting war. That this would happen may have been realised by the manufacturers, and as I do not intend to offer, have on display, or in any way promote products subject to that type of trading, this decision will apply to the whole group's present and future products. I have pointed out to Messrs. Phillips Scott & Turner that there are many alternative products available for the public's choice, and they will doubtless realise that in most cases they can be obtained for a fraction of the cost charged by them.

G. STRANGWARD,
Hornsea, East Yorks

Comparing Like with Like

SIR, — In his letter headed "Not always practicable," your correspondent "Interested" (*C. & D.*, December 24, 1960), refers to an apparent inconsistency between Nielsen Drug Index figures published in the *C. & D.* of May 28, 1960, and the figures quoted in your report of my address to the Doncaster Branch of the Pharmaceutical Society. I think the cause of his doubt arises from the fact that he has misread the annual turnover figures I gave for independents as £25,000 and £100,000, whereas the published figures were £5,000 and £100,000 as representing turnover near each end of the scale. Despite that wide variation, the average turnover for all independents is approximately £12,000, because of the high proportion at the lower end of the scale. Average weekly turnover figures quoted in the *C. & D.* were for cash (excluding National Health Service) only, and were correct for each size of independent outlet. If we add on N.H.S. turnover, they then become consistent with today's national average of around £12,000 per annum, or £230 per week for all independent pharmacies.

I. MACDONALD, M.P.S., *Director*,
A. C. NIELSEN CO., LTD.,
Oxford

OVERSEAS NEWS

SOUTH AFRICA

New Degree Course in Pharmacy

THE University College of the Western Cape, South Africa, is to offer a degree course in pharmacy. The college, which caters for the Cape coloured people, opened in February 1960 with 157 students. That number is being increased in 1961 to about 400. At present, only two other South African universities—Potchefstroom and Rhodes—offer such a course.

ITALY

Pharmaceutical Sciences Congress

THE twenty-fifth International Congress of Pharmaceutical Sciences of the scientific section of the International Pharmaceutical Federation, is to be held in Pisa, Italy, September 4-8. The provisional programme makes provision for a symposium on "Suspensions, Emulsions and Foams in Pharmacy" and for "free communications" grouped within the following sections: Pharmacognosy and medicinal plants; pharmaceutical chemistry and analysis of medicaments; biological chemistry, toxicological and food chemistry; galenic pharmacy and pharmaceutical technology; pharmacodynamics, biological and microbiological determinations. Inaugural lectures are to be given by Professors M. Guillot and R. Ruyssen on "The Structure and Stability of Emulsions" and "The Constitution and Stability of Foams" respectively. Later lectures and discussions will concern the applications of aerosols, suspensions and emulsions in pharmaceutical practice. Application cards are available from Professor Dott. A. E. Vitolo, Piazza F. Carrara, 10, Pisa, Italy.

UNITED STATES

Drug Labelling Changes

DRUG manufacturers in the United States have been given a deadline by Food and Drug Administration of thirty days in which to change their promotional literature, oral detailing and advertising copy. An additional sixty days, or until March 9, has been granted to manufacturers to revise the labels of their prescription drugs to give doctors more information.

The main changes in labelling of new drugs are:

Labels of drugs for injection must declare the quantity of all inactive ingredients. Previously, regulations have required inactive ingredients to be named on such drugs but required quantitative declaration of only the active ingredients. Prescribed drugs have to bear a control number to determine their manufacturing history and labels or literature must contain complete information for professional use, including information about any relative hazards and the conditions in which the drug should not be used.

Information about uses, dosages, hazards and contraindications must be substantially the same as that contained in the application to market the drug and the labels must show the date of issuance or latest revision.

GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable from the Editor. Notes on the products are given on p. 22.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 7, 1961.

DILOSYN tablets and syrup

MANUFACTURER: The British Drug Houses, Ltd., Graham Street, London, N.1.

DESCRIPTION: (a) Tablets, each containing 8 mgm. of methdilazine hydrochloride. (b) Syrup containing 4 mgm. per teaspoonful (3.55 mls). Antihistaminic and antipruritic.

INDICATIONS: Hay fever; allergic bronchial spasm; conjunctivitis; urticaria; anaphylaxis. Pruritis, dermatitis.

DOSAGE: Adults, one tablet twice a day. Children, one teaspoonful of syrup twice a day.

HOW SUPPLIED: In bottles of twenty-five and 250 tablets, and bottle of 4 fl. oz. syrup.

FIRST ISSUED: October 1960.

SUPPLY RESTRICTIONS: P.I, S.4B.

NOTES: May cause drowsiness. Avoid alcohol.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 7, 1961.

LIGNAX ointment and suppositories

MANUFACTURER: Willows Francis, Ltd., 73 Shacklewell Lane, London, E.8.

DESCRIPTION: (a) Ointment containing 2 per cent. of lignocaine hydrochloride with zinc oxide, balsam of peru, dry extract of hamamelis and menthol, in a lanolin/soft paraffin base. (b) Suppositories, each containing gr. 1 of lignocaine hydrochloride with bismuth subgallate, zinc oxide, balsam of peru, dry extract of hamamelis and menthol.

INDICATIONS: Haemorrhoids, anal fissures, pruritis ani.

METHOD OF USE: *Ointment*: Apply morning and night or as necessary, after cleaning the affected area. *Suppositories*: Insert one, morning and night. Up to six may be used daily if necessary.

HOW SUPPLIED: In tube of 20 gm. ointment, and boxes of twelve and 100 suppositories.

FIRST ISSUED: January 1960.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 7, 1961.

RINUREL tablets

MANUFACTURER: William R. Warner & Co., Ltd., Eastleigh, Hants.

DESCRIPTION: Pink, scored tablets, each containing 150 mgm. of paracetamol, 150 mgm. of phenacetin, 25 mgm. of phenylpropanolamine hydrochloride and 22 mgm. of phenyltoloxamine dihydrogen citrate.

INDICATIONS: For relief of headache associated with the common cold and sinusitis; hay fever.

DOSAGE: Adults, two tablets initially, then one every four hours; not more than six in twenty-four hours. Children (6-12 years), half the adult dose.

HOW SUPPLIED: In bottles of thirty and 250.

FIRST ISSUED: November 1960.

SUPPLY RESTRICTIONS: P.I, S.7.

NOTES: May cause drowsiness.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 7, 1961.

ZARONTIN capsules

MANUFACTURER: Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex.

DESCRIPTION: Soft gelatin capsules, each containing 250 mgm. of ethosuximide. Anticonvulsant.

INDICATIONS: Petit mal epilepsy. May be given with other anticonvulsants where attacks involve additional epileptic states (e.g., grand mal).

DOSAGE: Adults and Children (over 6 years), two capsules daily; children (under 6 years), one daily. Dosage should be adjusted according to response.

HOW SUPPLIED: In bottles of fifty and 500.

FIRST ISSUED: November 1960.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 7, 1961.

DEPINAR injection

MANUFACTURER: Armour Pharmaceutical Co., Ltd., Hampden Park, Eastbourne, Sussex.

DESCRIPTION: A long-acting suspension of cyanocobalamin in multidose vials, containing 500 microgm. (as lyophilised zinc tannate complex) per mil when reconstituted.

INDICATIONS: Megaloblastic anaemias, including pernicious anaemia with or without neurological complications; nutritional macrocytic anaemia; sprue.

DOSAGE: 500 microgm. i.m., every two weeks initially then every month. Dose can be varied according to the nature and severity of disease.

HOW SUPPLIED: In carton, containing vial of 1,000 microgm. plus 2 mls diluent or vial of 2,500 microgm. plus 5 mls diluent.

FIRST ISSUED: May 1960.

NOTES: The reconstituted suspension is stable at room temperature for fourteen days if protected from light. If refrigerated it should be used within two months. Reject if darkening appears.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 7, 1961.

SOFRA-TULLE

MANUFACTURER: Roussel Laboratories, Ltd., 843 Harrow Road, London, N.W.10.

DESCRIPTION: Sterile open-mesh gauze dressing, impregnated with white soft paraffin containing 1 per cent. of framycetin sulphate.

INDICATIONS: Wounds, burns, leg ulcers; in skin-grafting surgery.

METHOD OF USE: Aseptically applied and covered with a sterile absorbent dressing.

HOW SUPPLIED: In tin of ten 4 x 4-in. pieces.

FIRST ISSUED: November 1960.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 7, 1961.

VIACUTAN tulle

MANUFACTURER: Ward, Blenkinsop & Co., Ltd., Fulton House, Empire Way, Wembley, Middlesex.

DESCRIPTION: Sterile open-mesh gauze impregnated with methargen (silver dinaphthylmethane disulphonate) in a water-soluble polyethylene glycol base.

INDICATIONS: Burns; pre- and post-operative skin grafting; leg ulcers; bed-sores; infected wounds and abrasions.

METHOD OF USE: Aseptically applied and covered with a sterile absorbent dressing.

HOW SUPPLIED: In boxes of ten and thirty pieces (approx. 4 x 2 in.).

FIRST ISSUED: 1959.—Admitted to Drug Tariff September 1960.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 7, 1961.

VIRUGON tablets

MANUFACTURER: Bayer Products division, Winthrop Group, Ltd., Winthrop House, Surbiton-upon-Thames, Surrey.

DESCRIPTION: White, uncoated tablets, each containing 100 mgm. of N'N'anhydrobis (β -hydroxyethyl) biguanide hydrochloride; 0.1 mgm. of atropine methonitrate and 0.1 mgm. of hyoscine methonitrate. Anti-viral.

INDICATIONS: Influenza; mumps; measles; chicken pox; herpes zoster.

DOSAGE: To be taken three times a day. Prophylactic: Adults, one tablet. Children, half a tablet. Therapeutic: Adults, two tablets. Children, half to one tablet.

HOW SUPPLIED: In bottles of forty-eight and 500.

FIRST ISSUED: November 1960.

SUPPLY RESTRICTIONS: P.I.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 7, 1961.

ACTIFED compound linctus

MANUFACTURER: Burroughs Wellcome & Co., Wellcome Building, Euston Road, London, N.W.1.

DESCRIPTION: A blackcurrant linctus containing 1 mgm. of triprolidine hydrochloride, 20 mgm. of pseudo-ephedrine hydrochloride and 7.5 mgm. of codeine phosphate per teaspoonful (1 fl. drachm).

INDICATIONS: Cough associated with respiratory congestion; bronchial asthma, bronchitis.

CONTRAINDICATIONS: Cardiovascular disease.

DOSAGE: Adults and Children (over 12 years), 1-2 teaspoonfuls every 4-6 hours; children (2-12 years), $\frac{1}{2}$ -1 teaspoonful every 4-6 hours.

HOW SUPPLIED: In bottles of 4 and 20 fl. oz.

FIRST ISSUED: October 1960.

SUPPLY RESTRICTIONS: P.I, S.7.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 7, 1961.

ACTIFED syrup

MANUFACTURER: Burroughs Wellcome & Co., Wellcome Building, Euston Road, London, N.W.1.

DESCRIPTION: A syrup containing 0.88 mgm. of triprolidine hydrochloride and 21.3 mgm. of pseudo-ephedrine hydrochloride per teaspoonful (1 fl. drachm).

INDICATIONS: Respiratory congestion in the child: coryza and allergic symptoms.

CONTRAINDICATIONS: Cardiovascular disease.

DOSAGE: Children (2-12 years), $\frac{1}{2}$ -1 teaspoonful two or three times a day.

HOW SUPPLIED: In bottles of 4 and 20 fl. oz.

FIRST ISSUED: October 1960.

SUPPLY RESTRICTIONS: P.I, S.7.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 7, 1961.

ACTIPHILL suspension

MANUFACTURER: J.P.M. Pharmaceuticals, Ltd., 26 High Street, Wimbledon, London, S.W.19.

DESCRIPTION: A dark-green colloidal suspension of chlorophyll (10 per cent.) in normal saline. For oral or local use.

INDICATIONS: Anæmias, toxæmias; dermatoses, ulcers.

DOSAGE: Orally, 30 drops in water, daily. Diluted with an equal quantity of water or saline for topical application.

HOW SUPPLIED: In plastic dropper bottle of 20 mls.

FIRST ISSUED: December 1959.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 7, 1961.

DILAVASE tablets

MANUFACTURER: Organon Laboratories, Ltd., Brettenham House, Lancaster Place, London, W.C.2.

DESCRIPTION: White tablets, each containing 10 mgm. of isoxsuprine hydrochloride. A vasodilator.

INDICATIONS: Peripheral arteriosclerosis; Buerger's disease; Raynaud's disease; thrombophlebitis; chilblains.

DOSAGE: One to two tablets three or four times a day, initially. Reduce according to response.

HOW SUPPLIED: In bottles of fifty and 250.

FIRST ISSUED: November 1960.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 7, 1961.

FILON tablets

MANUFACTURER: West Pharmaceutical Co., Ltd., 9 Palmeira Mansions, Church Road, Hove, Sussex.

DESCRIPTION: Tablets, each containing 30 mgm. of phenmetrazine theoclate and 20 mgm. of phenbutrazate hydrochloride. Anorectic.

INDICATIONS: Adiposity; hypotonic states; orthostatic syndrome.

DOSAGE: One tablet two or three times a day, half-hour before meals.

HOW SUPPLIED: In bottle of 100.

FIRST ISSUED: November 1960.

SUPPLY RESTRICTIONS: Prescription only recommended.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 7, 1961.

ABICOL tablets

MANUFACTURER: Boots Pure Drug Co., Ltd., Station Street, Nottingham.

DESCRIPTION: Pink, scored tablets, each containing 0.15 mgm. of reserpine and 2.5 mgm. of bendrofluazide.

INDICATIONS: Hypertension. May be used in conjunction with ganglion-blocking agents.

DOSAGE: Half to one tablet, morning and evening. Dose may be increased to two tablets if necessary.

HOW SUPPLIED: In containers of 100 and 500.

FIRST ISSUED: November 1960.

SUPPLY RESTRICTIONS: P.I, S.4b.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 7, 1961.

DIANABOL drops

MANUFACTURER: CIBA Laboratories, Ltd., Horsham, Sussex.

DESCRIPTION: Pædiatric drops containing 1 mgm. of methandienone per mil. An anabolic agent.

INDICATIONS: Protein deficiency states, as shown in premature infants and underdeveloped children; post-operatively and in convalescence.

DOSAGE: Infants and Children under 2 years, 0.04 mgm. (1 drop) per kilo of body weight daily; children (2-5 years), 0.5-1 mgm. daily; (6-14 years), 1-2 mgm. daily.

HOW SUPPLIED: In dropper bottle of 20 mls.

FIRST ISSUED: October 1960.

SUPPLY RESTRICTIONS: P.I, S.4b.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 7, 1961.

LOBAK tablets

MANUFACTURER: Bayer Products division, Winthrop Group, Ltd., Surbiton-upon-Thames, Surrey.

DESCRIPTION: White uncoated tablets, each containing 100 mgm. of chlormezanone and 450 mgm. of paracetamol.

INDICATIONS: As an analgesic and skeletal muscle relaxant in backache. Also often effective in dysmenorrhœa.

DOSAGE: Two tablets three times a day.

HOW SUPPLIED: In bottles of fifty and 500.

FIRST ISSUED: November 1960.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 7, 1961.

SUSTACOL tablets

MANUFACTURER: Pharmax, Ltd., Western House, Gravel Hill, Bexleyheath, Kent.

DESCRIPTION: Sustained-release tablets, each containing 7.5 mgm. of homatropine methylbromide and 72.5 mgm. of phenobarbitone.

INDICATIONS: Gastro-intestinal spasm and hypersecretion; peptic ulcer.

DOSAGE: One tablet before breakfast and at bed-time.

HOW SUPPLIED: In bottles of twenty and 200.

FIRST ISSUED: November 1960.

SUPPLY RESTRICTIONS: P.I, S.1, S.4a.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 7, 1961.

TRIPECTOL linctus

MANUFACTURER: Willows Francis, Ltd., 73 Shacklewel Lane, London, E.8.

DESCRIPTION: Linctus containing 12.5 mgm. of antazoline hydrochloride, 4 mgm. of pholcodine and 8 mgm. of ephedrine hydrochloride per teaspoonful (4 mls).

INDICATIONS: Cough and allied respiratory disorders.

DOSAGE: To be taken three times a day and at bedtime.

Adults, 1-2 teaspoonfuls. Children (6-14 years), $\frac{1}{2}$ -1 teaspoonful.

HOW SUPPLIED: In containers of 4, 20 and 80 fl. oz.

FIRST ISSUED: November 1960.

SUPPLY RESTRICTIONS: P.I, S.7.

NOTES: May cause drowsiness. Avoid alcohol.

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JANUARY 4: Trading in CRUDE DRUGS in the opening days of the new year was spasmodic. In some quarters at least there was evidence of interest by buyers, and orders were a little more numerous than of late, though the quantities ordered were in no instance of the size that once used to be placed.

The sudden political flare-up in Laos was blamed for a jump in PEPPER prices. Prime Cape ALOES at origin were a little weaker at 157s. 6d. per cwt., c.i.f. (down 10s.). CINNAMON QUILLS were also fractionally easier for shipment. A softer tone was noticeable in MENTHOL but COPAIBA and PERU BALSAMS were a little firmer.

Among ESSENTIAL OILS, PATCHOULI was down by 2s. 6d. per lb. in both positions. Bourbon GERANIUM was down 5s. on the spot, whilst for shipment, Brazilian PEPPERMINT was three-pence per lb. easier. Ceylon CITRONELLA also eased slightly but the Formosan variety widened the gap between the two oils still further by adding six-pence per lb. to its previous spot price.

The new year also brought several price changes in PHARMACEUTICAL CHEMICALS. Perhaps the least expected was a rise of twopence per lb. in the schedules for SODIUM SALICYLATE and SALICYLIC ACID by at least one manufacturer; others were expected to fall in line. The weakness of ZINC METAL led to B.P. OXIDE falling another 50s. a ton. The suppliers of BORAX and BORIC ACID, who forecast two months ago that if increased rates of ocean freight became effective on January 1 they would have to amend their schedules, now advise that they have been successful in getting the amount of the increase temporarily reduced from that originally proposed, and in consequence new schedules (see below) show only an increase of 10s. a ton, effective February 1. They emphasise that in a hardening freight market the remainder of the increase has been deferred until April 1, and if they are unsuccessful in getting that increase cancelled a further revision of prices may be inevitable. Reductions in price of more INDUSTRIAL CHEMICALS—certain grades of POLYETHYLENE GLYCOL—were announced with effect from January 1. The reductions—of £10 a ton—affected three grades of the material: polyethylene glycol 200, 300 and 400.

Pharmaceutical Chemicals

p-AMINOSALICYLIC ACID. — SODIUM, 17s. 6d. per kilo for 1,000-kilo lots.

AMMONIUM ACETATE. — 1-cwt. lots of B.P.C. 1949, 4s. 5d. per lb.

AMMONIUM BICARBONATE.—B.P. powder, £50 5s. per ton; CARBONATE, £81 10s. for lump and £85 10s. for powder.

AMMONIUM CHLORIDE. — One-cwt. lots B.P. powder, 105s. per cwt.; technical, 55s.

ANEURINE HYDROCHLORIDE. — 1-kilo £9 5s.; 10-kilos, £8 17s. 6d. per kilo.

ASCORBIC ACID.—One-kilo, £3 12s.; 10 kilos, £3 10s. per kilo. SODIUM ASCORBATE is offered at the same price.

BORAX.—B.P. grade, 1 ton and upwards; Granular, £56 10s.; crystals, £60; powder, £61; extra fine powder, £62 per ton, all

in hessian sacks. Commercial from £46 10s. to £52 per ton, as to type and packing. Dehydrated borax is £60 per ton in paper-lined hessian bags or £59 in paper bags; carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5 cwt., 1s. per cwt.; 3 cwt., 2s.; 1 cwt., 3s. Before February 1 less 10s. per ton.

BORIC ACID.—B.P. grade in 1 ton and upwards (per ton): Granular, £91 10s.; crystals, £99 10s.; powder, £97; extra-fine powder, £99 per ton in lined hessian bags, carriage paid in Great Britain. Less £1 per ton if supplied in paper bags. Technical from £77 10s. to £87 per ton according to type and packing. Before February 1, less 10s. per ton.

CALCIFEROL.—B.P., 3s. 3d. per gm. for 1-kilo lots.

CALCIUM PANTOTHENATE. — £7 10s. per kilo.

CITRIC ACID. — Domestic powder and crystals (in kegs) per cwt. 1-4-cwt. lots, 201s. per cwt. 5-19-cwt., 197s.; 1 ton, 196s. In paper bags, prices are 193s., 189s. and 188s., respectively.

DIHYDROXY-ACETONE.—Per kilo £9 for minimum 1-kilo lots.

EPHEDRINE. — ALKALOID nominally 6s. 6d. per oz., SULPHATE, 4s. and HYDROCHLORIDE, 3s. 3d. per oz.

ETHER.—Per lb. in winchesters: TECHNICAL B.S.S., and SOLVENT, 5-cwt., 2s. 7d.; (4s. 1d. per litre). In drums the price is 2s. 2d. per lb. ANÆSTHETIC, B.P., 5-cwt., 3s. 10d.; 10-cwt., 3s. 9d.

FOLIC ACID. — B.P. and U.S.P., 1s. per gm. 1-kilo lots; smaller lots, up to 1s. 6d. per gm.

GLYCRRHETINIC ACID.—Per gm., 2s. 3d.

HEXAMINE.—B.P., 1s. 11½d. per lb. for 1-ton lots, delivered in 1-cwt. kegs. Technical is threepence per lb. less.

KAOLIN.—LIGHT, 60s. per cwt.; 1-ton, 57s. per cwt.

LACTATES. — CALCIUM, B.P., 2s. 3d. per lb. in 5-cwt. lots and 2s. 4d. in 1-cwt. lots; CALCIUM SODIUM, 4s. 9d. and 4s. 10d. per lb.

MENAPHTHONE. — (One-kilo-lots). B.P. 170s. per kilo; ACETOMENAPHTHONE, B.P., 170s.; WATER-SOLUBLE (menadione sodium bisulphite, U.S.P.), 180s.

NICOTINAMIDE. — (Per kilo). One-kilo, 60s.; 10 kilos, 59s.; 50 kilos, 57s.

NICOTINIC ACID. — One-kilo, 39s.; 50-kilos, 36s. per kilo.

NIKETHAMIDE.—Per kilo, 100s.

PYRIDOXINE. — One-kilo, £50 10s. per kilo; 10 kilos, £49.

RIBOFLAVINE. — One kilo, £13 5s.; 10-kilos, £12 17s. 6d. per kilo.

VITAMIN A.—Synthetic. Supplied in concentrate 1 million international units per gm. as acetate or palmitate the price is 9½d. per million i.u.

VITAMIN D.—In oil, 2 million units per gm. the price is 2d. per million international units. Crystalline: see under calciferol.

VITAMIN E (synthetic or natural).—Tocopheryl acetate, B.P.C., 25 gm. to 100 gm., 11d. per gm.; 100 gm. to 1 kilo, 9d. per gm.; 1 kilo and under 10 kilos, £31 5s. per kilo; 10 kilos, £30 10s. per kilo. Equivalent prices for unesterified are: 1s. and

10d. per gm. and £37 and £35 10s. per kilo.

ZINC CARBONATE.—One-cwt. lots, 1s. 11d. per lb.

ZINC CHLORIDE. — B.P.C. cake, 7s. per lb.; sticks, 7s. 10d. TECHNICAL, 115s. per cwt.

ZINC OXIDE. — B.P. in 2-ton lots, £105 per ton.

ZINC PEROXIDE.—One-cwt. lots of B.P., 5s. 3d. per lb.

ZINC SULPHATE. — B.P., 1-cwt. lots, 1s. 10d. per lb.

Industrial Chemicals, Solvents

ACETALDEHYDE.—The 100 per cent. is £122 per ton.

ACETATES.—Per ton, spot 1-ton lots: AMYL (technical), £254 and B.S.S., £256. BUTYL, £169; ETHYL, £141; ISOPROPYL, £136.

ACETIC ANHYDRIDE.—10-ton lots, £126 per ton, delivered U.K. in returnable drums; 1-ton, £128.

ACETONE.—One-ton lots spot, £84 per ton in drums.

BENZOLE.—Thiophene-free, 9s. 3½d. per gall. for one 50-gall. barrel; pure 6s. 3½d. per gall.

N-BUTYL ALCOHOL.—1-5-ton lots, £159 per ton and one-ton lots, £163 per ton. SECONDARY, £130.

CARBON TETRACHLORIDE. — In 40-gall. drums, 1 ton and under 2 tons, £83 15s.; 4 tons and upwards, £82 5s.

ISOPROPYL ALCOHOL. — Technical grade (99 per cent.) 5s. 0½d. per gall. for 10,000-gall. lots; anhydrous in drum lots is £108 per ton.

METHYL ETHYL KETONE. — One-ton lots, £138 10s. per ton.

NAPHTHALENE.—Nominal home contract prices per ton for large users:—CRUDE, from £22 5s. to £23; WHIZZED, £27 5s. to £35 15s.; PHTHALIC grade, £42 10s. all ex maker's works; CRYSTALS from £62 10s. to £65 delivered; BALL AND FLAKE, £71 to £73 10s. delivered.

PHTHALATES. — Prices (per ton) one-ton lots: DIBUTYL, £206; DI-ISOBUTYL, £199; DI-ETHYL, £190 10s.; DI-METHYL, £182.

STEARATES. — Spot prices for minimum 1-ton lots:—ALUMINIUM (all grades), 253s. 6d. per cwt., CALCIUM (precipitated), 243s. 6d.; LEAD (30 per cent.), 223s. 6d.; MAGNESIUM (standard), 272s. and (super-fine), 302s.; ZINC 226s. to 286s. as to grade.

(Trade Report concluded on page 21).

LONDON EXCHANGE RATES

At the opening on Tuesday

Amsterdam ..	Florins to £	10-57½-10-58
Bombay ..	Shillings to rupee	1/5½-1/6½
Brussels ..	Francs to £	139-55-139-60
Copenhagen ..	Kronor to £	19-34½-19-34½
Frankfurt ..	D Marks to £	11-70½-11-70½
Hong Kong ..	Shillings to \$	2-78-2-82
Karachi ..	Shillings to rupee	1/5½-1/6½
Lisbon ..	Escudos to £	80-20-80-30
Malaya ..	Shillings to \$	2/4-2/4½
Milan ..	Lira to £	1,741½-1,741½
Montreal ..	Dollars to £	2-79½-2-79½
New York ..	Dollars to £	2-78-2-82
Oslo ..	Kronor to £	20-03½-20-03½
Paris ..	Francs to £	13-75-13-75½
Stockholm ..	Kronor to £	14-51½-14-51½
Zurich ..	Francs to £	12-08½-12-08½

*Bank of England official limits. Bank rate: 5 per cent. from December 8, 1960.

More rapid clinical results with **BROXIL** REGD. TRADE MARK the high-peak penicillin



Quickly absorbed from the gastro-intestinal tract, Broxil produces peak serum concentrations, higher than can be obtained with any other penicillin, within $\frac{1}{2}$ to 1 hour.

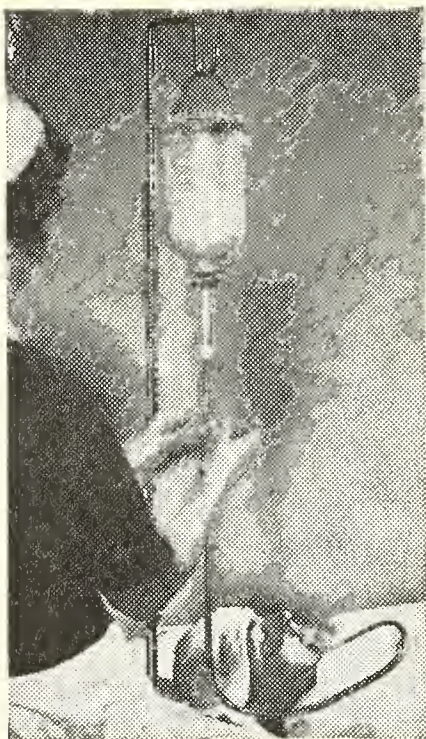
Clinical results are as successful as they are rapid.
Broxil is available in both Tablet and Syrup form.

Broxil is a product of British Research at

BEECHAM RESEARCH Laboratories Ltd., BRENTFORD, ENGLAND



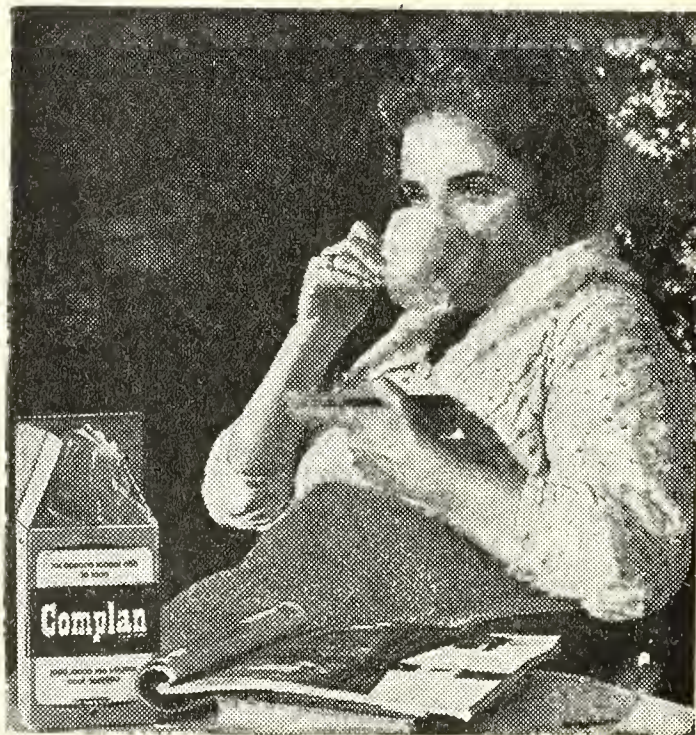
IN CRISIS AND CONVALESCENCE



COMPLAN provides *complete* nourishment

The same Complan which is so widely used in hospital is so beneficial when patients return home. Two or three cups daily of Complan (so very easily prepared) provide the high protein-vitamin-mineral intake to build them up to full health.

And it's not just recently hospitalised patients who make Complan customers . . . children with mumps or tonsillitis . . . gastric sufferers who need a bland diet and old people who subsist on meagre meals — these are just a few of the many who buy Complan and come back for more.



Complan

1 lb. cartons

Retail Price 4/2 each Trade Price 40/- per dozen
COMPLAN No. 1 Parcel 24 x 1 lb. cartons £3.15.0.



COMPLAN is a Glaxo Trade Mark

Contains every nutrient essential to life

GLAXO LABORATORIES LIMITED,
GREENFORD, MIDDLESEX, BYRON 3434
Subsidiary companies or Agents in most countries

Crude Drugs

ALOE.—Cape primes, spot, 175s. per cwt.; shipment, 157s. 6d. Curaçao, spot, 480s.; shipment, 440s., c.i.f.

BALSAMS.—Per lb.: CANADA: Spot, 22s. for paper-filtered. COPAIBA: Spot, 8s. 9d. duty paid as to source. PERU: Spot, 9s. in bond. TOLU (genuine as imported) small lots, 25s.; B.P., 12s. 9d.

BELLADONNA.—LEAVES (t.a. 0.53 per cent.), 1s. 9d. per lb. Dutch for shipment (t.a. not quoted) 2s., c.i.f. ROOT cleared on the spot.

BENZOIN.—Sumatra block, spot £22 to £30 as to quality.

BUCHU.—Spot rounds, 1958-59 crop. 5s. per lb.

CALAMUS.—Root, 100s. per cwt., spot, 87s. 6d., c.i.f.

CALABAR BEANS.—Spot, 2s. 3d. per lb.

CAMPHOR.—B.P. powder, 3s. 10½d. per lb. in bond.

CAPSICUMS.—Chinese, on stalk, 150s., duty paid.

CARDAMOMS.—Aleppy greens, landed, 14s. per lb.; shipment, 12s. 3d. per lb., c.i.f. Seeds, shipment, 21s. 6d., c.i.f.

CASCARA.—Spot, 1960 peel, 265s. per cwt., shipment, 265s., c.i.f.

CASSIA.—*Fistula*, 115s. per cwt. nominal; *lignea* (whole), 410s., duty paid.

CHILLIES.—Nigerian, 185s. per cwt.

CINNAMON QUILLS.—Shipment (c.i.f., per lb.) 4 O's, 5s. 4½d.; 3 O's, 5s. 2½d.; O, 4s. 10d.; quillings, 3s. 1½d.; featherings, 1s. 6½d.

CLOVES.—Zanzibar spot, 2s. 9½d. per lb.; shipment, 2s. 6½d., c.i.f.

COCILLANA.—Bark, 2s. per lb., spot; 1s. 8d., c.i.f.

COLOCYNTH PULP.—Spot, 2s. to 2s. 6d. per lb. as to quality.

DIGITALIS.—*Purpurea* for shipment, 11d. to 2s. 4d. per lb., c.i.f., as to test.

ELEMI.—Spot, 2s. 6d. per lb. nominal. Shipment, not offering.

ERGOT.—Portuguese nominally 11s. per lb., c.i.f., for prompt shipment; spot, 9s. 3d.

FRANGULA.—Spot, 105s. per cwt.

GENTIAN.—Spot: French, 155s. per cwt.

GINGER.—African, spot, 230s. and 207s. 6d., c.i.f. Jamaican No. 3, spot, 200s.; shipment, 195s., c.i.f. Cochín, shipment, new crop, 132s. 6d., c.i.f.; spot, 165s. (per cwt.).

GUM ACACIA.—Kordofan cleaned sorts, 152s. 6d. per cwt., spot; new crop, January-February shipment, 141s., c.i.f.

HENNA.—Indian, spot, 105s. per cwt.; new crop, December shipment, 70s., c.i.f.

IPECACUANHA.—For shipment, c.i.f., per lb.—Colombian, 50s. 3d.; Costa Rican, 68s. 6d.; Nicaraguan, 66s. 6d. Spot: Matto Grosso, 53s. 6d. to 55s. as to test; Colombian, 55s. 6d.

JUNIPER BERRIES.—Italian, 90s. per cwt.; German, 130s.

KARAYA.—No. 1 gum, spot 325s. per cwt. nominal; No. 2, 225s.

LEMON PEEL.—Spot, 2s. 6d. to 3s. per lb.

LINSEED.—Whole, 75s. to 80s. per cwt.; crushed, 105s.

LOBELIA HERB.—Dutch for shipment sold out. American, c.i.f., value 7s. 9d.

MACE.—Whole pale blade, 23s. 6d. per lb. spot.

MENTHOL.—Chinese: spot, 90s. per lb., duty paid; afloat, 85s., c.i.f. Shipment, 82s. 6d., c.i.f. Brazilian, 54s., in bond; Formosan, 54s., in bond.

MERCURY.—About £69 per flask of 76-lb.

NUTMEGS.—West Indian 80's 12s. per lb., spot; sound unassorted, 9s. 3d.; defectives, 7s.

NUX VOMICA.—Spot, 130s. per cwt.; shipment, 90s., c.i.f., subject to export licence.

ORANGE PEEL.—Spot: Sweet ribbon, 2s. per lb.; bitter quarters: West Indian, 1s. 1d.; Spanish, 1s. 7d.; bitter ribbon, 1s. 4d.

ORRIS ROOT.—Florentine, 350s. per cwt.

PAPAIN.—Tanganyikan, 12s. per lb., c.i.f., for grade one. Spot 13s. to 14s. Ceylon all grades nominal.

PEPPER.—White Sarawak, spot, 5s. per lb.; shipment, 4s. 10d., c.i.f. Black Sarawak, spot, 4s., shipment, 3s. 4½d., c.i.f. Black Malabar, 480s. per cwt. spot, and 385s., c.i.f.

PEPPERMINT LEAVES.—Dutch whole 1s. 9d. to 2s. 2d. per lb., c.i.f.

PIMENTO.—Spot, 590s. cwt.; shipment, 540s., f.o.b.

PODOPHYLLUM.—*Emodi*, 190s. per cwt., spot. *Peltatum*, 375s.

PYRETHRUM.—Extract, minimum 25 per cent. w/w pyrethrins, 75s. per lb. for small lots.

QUILLAIA.—Spot 230s. per cwt.; shipment, 135s., per cwt., c.i.f.

RHUBARB.—Chinese small rounds from 5s. 9d. to 6s. 9d. per lb. on the spot.

SAFFRON.—Mancha selecta, 147s. 6d. per lb.

SARSAPARILLA.—Jamaican native red spot, 2s. 9d. per lb.; shipment not offering.

SEEDS.—(Per cwt.). **ANISE.**—Spanish, 170s.; Turkish, 135s., duty paid. **CARAWAY.**—Dutch, 162s. 6d., duty paid. **CELERY.**—Indian, 145s.; shipment, 138s. 6d., c.i.f. for January shipment. **CORIANDER.**—Moroccan, 127s. 6d., duty paid; shipment, 125s., c.i.f. **CUMIN.**—Indian, 180s., spot. Iranian 175s., duty paid. **DILL.**—Indian, 100s., spot; shipment, 88s. 6d., c.i.f. **FENNEL.**—Chinese, 100s., duty paid; Indian, 120s. **FENUGREEK.**—Moroccan, 70s., duty paid; shipment, 55s., c.i.f. **MUSTARD.**—English, 80s. to 100s., according to quality.

SENEGA.—Spot, 21s. 6d. per lb.

SENNA.—*Tinnevelly* LEAVES, prime No. 1, 1s. 6d. per lb., f.a.q.; No. 3, 9d. Pods: Manufacturing (f.a.q.), 9d. and hand-picked, 1s. 5d. to 1s. 10d. *Alexandria* pods: Manufacturing, 1s. 6d.; new crop hand-picked, 4s. to 7s.

SHELLAC.—F.O.T.N., 202s. 6d. per cwt.; No. 1, 225s.; F.O., 235s. to 285s., spot.

SQUILL.—White 85s. per cwt., spot.

STRAMONIUM.—Indian LEAVES 60s. per cwt., spot. Dutch 0.5 per cent. alkaloid 93s., c.i.f.

STYRAX.—Spot, 32s. 6d. per lb., shipment, 29s., c.i.f.

TONQUIN BEANS.—Para spot, 7s. 3d. per lb. Shipment nominal. Angostura 11s.

TRAGACANTH.—No. 1 ribbon, £145 to £150 per cwt. No. 2, £135 to £140.

TURMERIC.—Madras finger on spot is 102s. 6d. per cwt.; shipment, 91s. 6d., c.i.f.

VALERIAN ROOT.—Spot: Belgian, whole (max. 2½ per cent. sand) for prompt shipment, 145s., c.i.f. Dutch old crop cleared.

VANILLIN.—Rates (per lb.) are now:—5-cwt. lots, 23s. 3d.; 1-cwt., 23s. 5d.; 56-lb., 23s. 9d.; small quantities, 24s.

WAXES.—(Per cwt.). **BEES'.**—Dar-es-Salaam, spot, 475s.; shipment, 450s., c.i.f. Abyssinian, spot 410s. in bond; shipment 370s., c.i.f. Benguela, shipment, 380s., c.i.f. Sudanese, spot, 425s.; shipment, 380s., c.i.f. **CANDELILLA.** spot, 460s. **CARNAUBA.** fatty grey, spot, 525s.; shipment, 485s., c.i.f.; prime yellow, spot, 740s.; shipment, 715s., c.i.f.

WITCH HAZEL LEAVES.—New-crop nominally 3s. 6d. per lb.

Essential and Expressed Oils

ALMOND.—Moroccan, 6s. per lb., duty paid.

AMBER.—Rectified on the spot, 1s. 6d. per lb.

ANISE.—Chinese, 6s. 7½d. per lb., spot; shipment, 6s. 4½d., c.i.f.

BERGAMOT.—Spot, from 72s. 6d. per lb.

BOIS DE ROSE.—Brazilian, 14s. 9d. per lb. on the spot and 14s. 6d., c.i.f.

CAMPHOR, WHITE.—Chinese, 1s. 8d. per lb. in bond; 1s. 5d., c.i.f.

CANANGA.—Spot, from 38s. per lb.

CARAWAY.—Imported oil, 26s. 6d. per lb.

CASTOR.—Home produced B.P. oil, spot, £155 per ton naked ex mill (2-ton lots).

CEDARWOOD.—American rectified, 5s. per lb. on the spot.

CELERY SEED.—Dutch oil, 90s. per lb. and Chinese, 65s.

CITRONELLA.—Ceylon, spot, 6s. 7d.; shipment, 6s. 3d. per lb., c.i.f. Formosan, spot, 7s. 6d., in bond; shipment, 7s. 6d., c.i.f.

CLOVE.—Madagascar leaf, spot, 8s. per lb., duty paid; shipment, 6s. 10½d., c.i.f. Rectified 87-88 per cent., 12s. Distilled bud-oil, English, B.P., 30s. to 31s.

COD-LIVER.—B.P. is 11s. 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

CUBE.—Small spot supplies of imported are 65s. per lb.; English, 90s.

CUMIN.—Imported oil, 90s. per lb.

GERANIUM.—Bourbon, 135s. per lb. on the spot; Algerian, 135s.

GINGER.—Imported: Jamaican, 130s. per lb.; Chinese, 72s. 6d., duty paid.

JUNIPER.—B.P.C. 1949 oil is from 15s. per lb. on the spot. English-distilled, 150s. JUNIPER WOOD, from 5s.

LEMON.—Californian cold-pressed from 12s. 6d. per lb., spot; Sicilian, 29s.

LEMONGRASS.—Spot, 14s. 3d. per lb., nominal and shipment, 13s. 9d., c.i.f.

OTTO OF ROSE.—Bulgarian, 400s. per oz. Turkish, £350 per kilo.

PATCHOULI.—Penang is 40s., duty paid and 37s. 6d., c.i.f., per lb.

PENNYROYAL.—Spot is firm at 15s. per lb. duty paid.

PEPPERMINT.—*Arvensis*: Chinese spot, cleared; c.i.f., 37s. 9d. Brazilian, 17s. 6d. per lb. spot, new-crop 16s. 3d., c.i.f. *Piperita*: Italian "Mitcham-type" nominally 55s. per lb., c.i.f., for new crop; spot, 60s. American from 27s. 6d. to 35s. per lb. as to make.

PIMENTO.—English-distilled berry 167s. 6d. per lb.; imported, 77s. 6d. Rectified leaf, 27s. 6d. per lb. for small lots.

RUE.—Spanish is 25s. per lb. spot.

SAGE.—Spanish, 8s. per lb.; Dalmatian, 25s.

SANDALWOOD.—Mysore 150s. to 155s. per lb. East Indian 150s.

TANGERINE.—From 20s. 6d. to 29s. per lb., as to quality, spot.

THYME.—B.P.C. oil 9s. 6d. per lb., on the spot.

VETIVERT.—Bourbon spot, 115s. to 120s. per lb.; shipment, 113s., c.i.f.

YLANG YLANG.—Spot, 37s. 6d. per lb.

UNITED STATES REPORT

NEW YORK, JANUARY 3: Natural refined GLYCERIN was cut by two cents to make the 99 per cent. 27½ cents a lb. The synthetic refined came down one cent, to 27¼ cents for the 99 per cent. Brazilian MENTHOL declined by another 15 cents to \$8.25 a lb. ASCORBIC ACID is now quoted at \$6.80 a kilo against \$10. PIMENTO LEAF OIL at \$2.60 was down ten cents per lb.

NOTES ON NEW MEDICAMENTS

ABICOL.—*Constituents:* Reserpine and bendrofluazide. The latter is a highly active derivative of chlorothiazide, and diuretics of that type have the power of potentiating the action of reserpine and other drugs used in hypertension. The increased action permits a reduction in dose, and also reduces the side-effects that may accompany full or prolonged treatment with reserpine. Serpasil-Esidrex is similar in action, and contains reserpine with hydrochlorothiazide. The diuretic action of the chlorothiazide group of drugs is associated mainly with a loss of sodium, but some loss of potassium also occurs. Occasionally it is necessary to offset this—and Salupres and Serpasil-Esidrex-K are preparations containing reserpine, hydrochlorothiazide and potassium chloride. Rautrax has a similar action, but contains standardised rauwolfia root, hydroflumethiazide and potassium chloride.

ACTIFED COMPOUND LINCTUS.—*Constituents:* Triprolidine hydrochloride, pseudoephedrine hydrochloride and codeine phosphate. Triprolidine is an effective antihistamine which also reduces nasal congestion. Pseudoephedrine is an analogue of ephedrine, and has similar bronchodilatory properties, but it lacks the often undesirable central stimulant action of ephedrine. Codeine phosphate has a depressant action on the cough centre. Another preparation with a similar pharmacological basis is Histadyl E.C., which contains methapyrilene, ephedrine and codeine. Associated products, with or without auxiliary constituents, are represented by Tecadrine (methapyrilene), dextromethorphan with expectorants, Capriton and Triominic.

DEPINAR.—*Chemistry:* Cyanocobalamin zinc tannate. The period of effectiveness of a number of physiologically active substances can be extended in various ways, such as suspension in oil, or the formation of a low solubility complex. Depinar is of the latter type, as the active moiety is linked with zinc tannate to form an insoluble complex. Following injection, the drug is slowly released and a steady and prolonged action is obtained. Bifactor, Biopar Forte and Bitrinsic are oral preparations containing cyanocobalamin and intrinsic factor; Distivit for oral use contains the vitamin as a cyanocobalamin-peptide complex.

DILAVASE.—*Chemistry:* Phenoxypropylamino-*p*-hydroxyphenyl-1-propanol, or isoxsuprine, as the hydrochloride. It is an orally active vasodilator having a direct effect on arterial muscle. It also exerts some adrenolytic action but has virtually no cardiac effects. Other orally active vasodilators include Dibenylene (phenoxybenzamine), Hexopal (mcs-*o*-inositol hexanecinate), Perdilatal (buphenine), Ilidar (azapetine), Priscol (tolazoline) and Glumorin (kallikrein).

DILOSYN.—*Chemistry:* 10-(1-Methyl-3-pyrrolidylmethyl) phenothiazine hydrochloride, or methdilazine. Although it is chemically related to the phenothiazine class of tranquilisers, methdilazine has a five-membered substituent ring. That modification of structure is associated with a specific and long-lasting anti-allergic and antipruritic action. Other antihistamines derived from phenothiazine include promethazine (Phenergan) and trimcpazine (Vallergan). Those compounds have a dimethylamino propyl derivative as the substituent group attached to the phenothiazine nucleus. Nilerger has the same side-chain as trimcpazine, but is derived from thio-diazo-anthracene. Perphenazine is a substituted piperazinyll derivative of phenothiazine.

FILON.—*Constituents:* Phenmetrazine theoclate and 2(3-methyl-2-phenylmorpholino)ethyl- α -phenyl butyrate (or phenbutrazate) hydrochloride. Those substances have appetite depressant properties, and a useful mild central stimulant action (although insufficient to disturb sleep). The effects on blood pressure and cardiac activity are slight. Other drugs with appetite depressant properties include the amphetamines: dexamphetamine (Dexedrine, Dexamed), and methyl amphetamine (Methedrine), phenmetrazine (Preludin), and diethyl propion (Tenuate). Dexten, Dexedrine span-

sules, Durophet and Preludin Tablongets are long-acting formulations of various types.

LOBAK.—*Constituents:* Paracetamol and chlorzoxanone. The former is the analgesic metabolite of phenacetin; it is free from the occasional side-effects of the parent drug, and is better tolerated than the salicylate analgesics. Chlorzoxanone, or 2(4-chlorophenyl)-3-methyl-4-metathiazanone-1,1-dioxide, prolongs and extends the action of paracetamol, and the combination has a muscle relaxant as well as an analgesic effect. Another product formulated on those lines is Parafon, which contains paracetamol with chlorzoxanone. Chlorzoxanone is 2-amino-5-chloro-benzoxazole, and has a relaxant effect in muscle spasm without affecting normal function.

RINUREL.—*Constituents:* Paracetamol, phenacetin, phenyl propanolamine hydrochloride and phenyltoloxamine dihydrogen citrate. The first two drugs are well known analgesics. Phenylpropanolamine is chemically related to ephedrine, and has similar decongestant properties but little central stimulant action. Phenyltoloxamine is a new antihistamine which also has a mild sedative action. Other products formulated on basically similar lines, sometimes with other auxiliary agents, include Capriton (chlorpheniramine, phenylephrine, acetylsalicylic acid, phenacetin and caffeine) and Triotussic (mepyramine, pheniramine, phenylpropanolamine, paracetamol, noscopine and terpin hydrate). Others, such as Histadyl E.C. and Actifed, represent antihistamines associated with cough depressants.

SOFRA-TULLE.—*Constituents:* Framycetin sulphate in a paraffin gauze base. Framycetin is an antibiotic active against a wide range of bacteria, including staphylococci resistant to other antibiotics. The drug is not used systemically; therefore sensitisation reactions and bacterial resistance are not so likely to develop. Tulle gras dressings, Nonad Tulle and Petronet are

examples of non-medicated paraffin gauze dressings. Carbonet has a non-greasy, water-soluble base; Dequadin, Sulphona and Urosulphonet represent medicated dressings.

SUSTACOL.—*Constituents:* Homatropine methylbromide and phenobarbitone. They are present as coated granules in the inert bulk of a tablet. The granules are multilayered and permit a steady and uniform release of the constituents as the successive coatings are attacked by the gastric juices. Release of the drugs is virtually independent of the pH of the stomach. Belladenal Retard and Spastipax are other long-acting products containing solanaceous alkaloids with a barbiturate. Antrenyl Duplex is a sustained action preparation of oxyphenonium bromide. A number of preparations which are formulated on standard lines, and contain belladonna or similar drugs together with a central sedative, include Fenobelladine, Donnatal, Nambu-Donnal and Neuro-Trasentin.

VIRUGON.—*Chemistry:* N'-N'-Anhydrobis (β -hydroxyethyl) biguanide hydrochloride with atropine and hyoscine methonitrates. The main constituent, also known as Flumidin, is the most effective of a series of biguanides with an antiviral action. In the treatment of clinical influenza the action is increased by the addition of the anticholinergic constituents, which have an antisecretory action. Hitherto treatment has been largely symptomatic, as no specific drugs have been available. Flubron and Invirin influenza virus vaccines are examples of immunising products used for prophylaxis.

ZARONTIN.—*Chemistry:* α -ethyl- α -methyl succinimide. The substance has anti-convulsant properties, and has a highly specific and selective action in the control of attacks of petit mal. The drug is related to phenoximide, or N-methyl- α -phenyl succinimide (Milonin), also effective in petit mal. Other anticonvulsants used mainly in that condition include troxidone (Tridione), aloxidone (Malidone) and paramethadione (Paradione).

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED From the "Official Journal (Patents),"

December 21, 1960

Soya phosphatides and therapeutic compositions containing them. Upjohn Co. 860,888.

Preparation of mono-guanyl-substituted 1, 1, 2-triphenyl-ethylenes and mono-guanyl-substituted 1, 2, 2-triphenylethanes. W. S. Merrell Co. 860,869.

Acidic pharmaceutical vehicle. W. C. Mende and J. L. Seidel. 860,877.

Manufacture of phthalazinium compounds. CIBA, Ltd. 861,219.

Pharmaceutical compositions and methods for producing phenylcyclohexane compounds. Parke, Davis & Co. 861,350.

Diphenyl derivative. Imperial Chemical Industries, Ltd. 860,940.

Process for the preparation of 4, 4'-bis (benzimidazol-2-yl) stilbene. Sterling Drug, Inc. 861,240.

Process for manufacturing terpenes essential oils. Colgate-Palmolive Co. 861,201.

Preparation of tertiary aliphatic methyl amines. Armour & Co. 860,922.

Process for the manufacture of dibenzazepine compounds. F. Hoffman-La Roche & Co., A.G.

Purification of halogenated salicylamides. Unilever, Ltd. 860,910.

Preparation of pure trialkyl borates. United States Borax & Chemical Corporation. 860,911.

6-methyl steroid compounds. British Drug Houses, Ltd. 861,007.

Manufacture of food-stuffs, beverages and the like. O. R. Groves, Ltd. 860,946.

Protective agents against the settling of microorganisms, and against fungi, algae, protozoa and insects. J. A. Benckiser, G.m.b.H. 861,043.

Beta-amino lower-alkyl carbamates. Dow Chemical Co. 861,045.

Herbicides. Bugges Insecticides, Ltd. 861,210.

Fungicidal and insecticidal compositions. Esso Research & Engineering Co. 860,942.

Thio-phosphoric acid esters. Farbenfabriken Bayer, A.G. 860,944.

Surgical splint. Connecticut Bandage Mills, Inc. 861,081.

Process of and apparatus for drying solid particles. Farbwerke Hoechst, A.G. 861,247.

Method of and apparatus for de-dusting tablets. CIBA, Ltd. 861,248.

Catalanial pads. W. Chi-Kwong. 860,985.

Filling apparatus for bottles and other containers having necks. U.D. Engineering Co., Ltd. 860,987.

From the "Official Journal (Patents),"
December 29, 1960

Steroids and the manufacture thereof. Upjohn Co. 861,471.

1-cinnamyl piperidine derivatives. Merck & Co., Inc. 861,559.

N-substituted piperidines. Merck & Co., Inc. 861,560.

Piperazino derivatives and methods for their manufacture. Scherico, Ltd. 861,779.

Pharmaceutical compositions having antidiabetic activity. Abbott Laboratories. 861,781.

Pharmaceutical compositions having muscle relaxant activity. Abbott Laboratories. 861,782.

Pharmaceutical compositions having tranquillising activity. Abbott Laboratories. 861,783.

Pharmaceutical compositions. Imperial Chemical Industries, Ltd. 861,526.

Therapeutic compositions comprising 1:2-benzisothiazolone derivatives. Imperial Chemical Industries, Ltd. 861,379.

Antibiotic compositions and methods of preparing them. National Drug Co. 861,351.

Salts of penicillins. Imperial Chemical Industries, Ltd. 861,527.

Organic phosphoramidates. Dow Chemical Co. 861,402.

3:4-dihydro-1:2:4-benzothiadiazine-1:1-dioxides. CIBA, Ltd. 861,367.

N-substituted piperidines. Merck & Co., Inc. 861,561.

Heterocyclic compounds and a process for the manufacture and conversion thereof. Roche Products, Ltd. 861,524.

British patent specifications are obtainable (price 4s. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2.

TELEVISION

Figures in the columns represent number of appearances of the product during the week.

January 15-21	London	Midland	North	Scotland	Wales	South	N.E.	Anglia	Ulster
Alka-Seltzer ..	2	2	2	2	3	2	2	1	2
Anadin ..	1	4	3	6	3	4	3	5	3
Andrews liver salt ..	2	2	2	1	2	1	3	1	2
Angettes ..	4	3	3	—	—	—	—	—	—
Askit powders ..	—	—	—	12	—	—	—	—	—
Aspro ..	3	3	6	6	4	4	4	4	—
Beecham's pills ..	—	—	—	—	2	2	1	—	1
powders ..	4	4	4	4	4	3	4	4	4
Bisodol ..	—	—	—	—	—	5	5	—	—
Clearasil ..	2	2	2	1	2	2	2	2	1
Coldrex ..	3	3	3	2	4	3	3	3	3
Deep heat ..	2	—	—	3	3	3	3	3	2
Dekrasil capsules ..	—	—	3	—	—	—	—	—	—
Delrosa ..	1	2	1	2	—	—	—	—	1
Dramal ..	3	3	3	3	3	3	3	3	3
Dristan ..	1	1	—	—	—	—	—	—	—
Germolene ..	—	—	1	1	1	—	1	—	—
Gon ..	4	5	3	4	2	1	3	1	7
Horlicks ..	4	4	4	4	4	4	4	3	3
Immac ..	—	—	—	—	—	1	—	—	—
Lloyd's adrenaline cream ..	—	2	—	—	—	—	—	—	—
Medicare ..	1	1	1	1	1	1	1	1	1
Milk of Magnesia ..	1	1	—	—	—	—	—	—	1
tablets ..	3	—	1	4	3	3	3	3	—
Owbridge's products ..	4	5	3	—	4	4	5	4	—
Panets ..	4	—	—	—	—	—	—	—	4
Philips electric blankets ..	—	—	—	1	1	1	1	—	—
Phosferine ..	1	1	1	—	—	—	—	—	—
Photoflux flashbulbs ..	2	—	—	—	—	—	—	—	—
Phyllosan ..	1	1	—	—	1	1	—	—	—
Prinics ..	2	3	1	2	2	3	2	2	—
Scotties ..	3	3	3	3	3	3	3	3	3
Setlers ..	2	1	1	—	2	1	1	—	—
Sure Shield lozenges ..	—	—	3	—	—	—	—	—	—
T.C.P. ..	2	2	2	—	—	—	—	—	—
Therex ..	4	4	4	5	5	3	4	2	4
Veno's cough mixture ..	1	2	2	2	2	—	—	—	2
Vick cough drops ..	3	2	—	—	—	—	2	—	—
vitamin C cough syrup ..	3	3	3	3	3	3	3	3	3
vapour rub ..	6	6	6	6	6	6	11	6	6



EFFECTIVELY ON DISPLAY: Illustrated are two products in the Peacock range of David Taylor & Son, Ltd., 14 Eastcheap, London, E.C.3, set off with a priced "crown" and peacock model in full display of train. The manufacturers claim for the products a considerable success in which one factor has been that no charge is made for bottles and cartons; another the high margin to stockists.

WILLS

MR. W. J. EDGINTON, F.P.S., 377 Court Lane, Sutton Coldfield, Warwicks, left £9,156 (£8,877 net).

MR. H. M. GARDNER, M.P.S., 37 The Oval, Stafford, left £23,198 (£19,057 net).

MR. J. V. HARRIS, M.P.S., 123 Bonvilston Road, Pontypridd, Glam., left £5,565 (£2,598 net).

MR. C. G. PINCHEN, M.P.S., 9 Broomfield Avenue, Telscombe Cliffs, Newhaven, Sussex, left £2,443 (£2,363 net).

MR. B. W. RUGG, M.P.S., 162 Hendford Hill, Yeovil, Somerset, left £41,181 (£40,570 net).

MR. J. E. SCOTT, M.P.S.I., Lowlands, New Road, Greystones, co. Wicklow, left estate in England and the Republic of Ireland valued at £20,618.

MR. J. STERLING, M.P.S.N.I., Balleny, Dro-more, co. Down, left personal estate in Great Britain and Northern Ireland valued at £14,509.

DR. C. J. STILL, Ph.D., M.Sc., M.P.S.N.I., 13 Hawthornden Drive, Belfast, left personal estate in England and Northern Ireland valued at £5,270.

MISS A. THOMPSON, M.P.S., 12 Swireford Road, Helsby, Warrington, Lancs, left £12,009 (£10,871 net).

MR. H. W. VANES, 44 Severn Avenue, Weston-super-Mare, Somerset, who qualified as a chemist and druggist in 1906, left £20,608 (£20,518 net).

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, January 9

HENDON AND EDWARE BRANCH, PHARMACEUTICAL SOCIETY, Hendon Hall hotel, Ashley Lane, London, N.W.4, at 8 p.m. Film evening.

NORTH LONDON PHARMACEUTICAL ASSOCIATION, Beales Restaurant, Holloway Road, London, N.7, at 7.45 p.m. Dr. E. T. Knudsen (Beecham Research Laboratories) on the development of Broxil and Celbenin.

NORTH STAFFS BRANCH, PHARMACEUTICAL SOCIETY, North Stafford hotel, Stoke, at 8 p.m. Sir H. N. Linstead (a secretary of the Society) on "The Cost of N.H.S., and of Drugs in particular."

Tuesday, January 10

SOUTH SHIELDS PHARMACISTS' ASSOCIATION, Golden Lion hotel, King Street. Max Factor evening. Talk and demonstration by Mr. H. Corbett.

NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY, Black Boy hotel at 7.30 p.m. Mr. P. Cotton on "The Scope of Colour Photography."

BEDFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Luton and Dunstable hospital at 7.45 p.m. Films evening.

SOUTH-EAST LONDON CHEMISTS' ASSOCIATION, New Cross inn, 323 New Cross Road, London, S.E.14, at 8 p.m. Mr. B. Pearce (Kodak, Ltd.), on "8-mm. Cine Photography."

LONDON SECTION, ROYAL INSTITUTE OF CHEMISTRY, Gravesend Technical College, Mayfield hall annexe, Pelham Road. Mr. H. W. M. Hodges on "Science and Archaeological Investigation."

GREAT YARMOUTH AND LOWESTOFT BRANCH, PHARMACEUTICAL SOCIETY, Links hotel, Gorleston, at 7.45 p.m. Film show.

Wednesday, January 11

GLASGOW AND WEST OF SCOTLAND BRANCH, PHARMACEUTICAL SOCIETY, Students' Union, Royal College of Science and Technology, Glasgow. D. Marshall Sloan on "Italy and Il Palio."

BIRMINGHAM PHARMACEUTICAL ASSOCIATION and BRANCH, Botanical Gardens, Edgbaston, at 8 p.m. New Year Carnival dance.

MANCHESTER PHARMACEUTICAL ASSOCIATION and BRANCH, Embassy Rooms, Sale, at 6.30 p.m. President's evening. Dinner and dance.

NORWICH BRANCH, PHARMACEUTICAL SOCIETY, Assembly House, Theatre Street, Norwich, at 7.30 p.m. Talk by Mr. C. J. Nicholas, A.I.B.P., on "Press Photography."

WESTERN [LONDON] PHARMACISTS' ASSOCIATION, Rotary House, Portman Square, London, W.1,

at 7.30 p.m. National Pharmaceutical Union Branch meeting. Mr. H. Noble (secretary, N.P.U.).

SOCIETY OF CHEMICAL INDUSTRY, MICROBIOLOGY GROUP, Barnes hall, Royal Society of Medicine, 1 Wimpole Street, London, W.1, at 2.15 p.m. "Quantitative Microbiology."

Thursday, January 12

LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Griffin hotel, at 8 p.m. Talk by Dr. H. Walden on the "Relationship between the G.P. and the Pharmacist."

BRISTOL BRANCH, PHARMACEUTICAL SOCIETY, Queen's hall, Berkeley, Clifton, Bristol, 8 (not as stated in Branch syllabus), at 7.15 p.m. Cosmetic demonstrations.

READING BRANCH, PHARMACEUTICAL SOCIETY, Liberal Club, Blagrove Street, Reading, at 7.30 p.m. Branch Resolutions night. Lecture by Mr. E. A. G. Cook on "Men, Microbes and Medicine."

DURHAM BRANCH, PHARMACEUTICAL SOCIETY, Three Tuns hotel, New Elvet, Durham, at 7.45 p.m. "A Pharmacist Abroad," illustrated talk by Mr. A. McGuckin.

NEWCASTLE AND NORTHUMBERLAND BRANCH, PHARMACEUTICAL SOCIETY, No. 2 Lecture theatre, King's College, at 7.30 p.m. Dr. T. E. Grant (Geigy Pharmaceutical Co., Ltd.) on "Depression." Film: "Faces of Depression."

CHESTERFIELD BRANCH, PHARMACEUTICAL SOCIETY, Station hotel, Chesterfield, at 8 p.m. Talk: "Trends in Modern Medicine" by Mr. A. R. G. Chamings (a member of the Society's Council). Film: "The Diary of a Drug."

Friday, January 13

HERTFORD BRANCH, PHARMACEUTICAL SOCIETY, Cranbourne Rooms, Hatfield, at 8 p.m. Annual buffet dance.

Advance Information

PHYSICAL SOCIETY'S EXHIBITION, 1961. Horticultural Halls, Westminster, London, S.W.1. January 16-20.

ROYAL SOCIETY OF ARTS, John Adam Street, Adelphi, London, W.C.2, at 6 p.m. on January 23, 30 and February 6. Three Cantor lectures: Dr. J. Murray (a director of Imperial Chemical Industries, Ltd.) on "The Modern Chemical Industry in Great Britain." Applications for tickets to the secretary of the Society.

PRINT AND PUBLICITY

PUBLICATIONS

PLASINTER CO., LTD., Progress Works, Holyhead Road, Wednesbury, Staffs: "Plastic Finishes for all Surfaces." Pp. 20.

ROCHE PRODUCTS, LTD., 15 Manchester Square, London, W.1: *The Roche Courier*, Vol. 26, Nos. 7 and 8. Pp. 4 each.

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TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," December 14, 1960

For radiological contrast media for use in post-mortem examinations (5)

CHROMOPAQUE, B801,584, by Damancy & Co., Ltd., Ware, Herts.

For insecticides, fungicides and preparations for killing weeds and destroying vermin (5)

SYSTICIDE, 804,146, by Pan Britannica Industries, Ltd., Waltham Abbey, Essex.

For pharmaceutical preparations (5)

RESYDIN, 803,495, by Boots Pure Drug Co., Ltd., Nottingham.

For chemical substances containing vitamins, for use as dietary adjuncts (5)

LIPOTRIAD, 799,618, by Carroll Dunham Smith Pharmacal Co., New Brunswick, New Jersey, U.S.A.

For medicated toilet preparations; and deodorants (5)

MINERS, 804,417, by Miners Make-Up, Ltd., Surbiton, Surrey.

For anesthetics (5)

MARVACAINE, 804,833, by Procol Manufacturing Co., Ltd., Toronto 5, Ontario, Canada.

For pharmaceutical preparations in cream form (5)

COSMACREME, 805,367, by D.D.D. Co., Ltd., Watford, Herts.

For pharmaceutical products, being analgesic preparations for topical application (5)

SKEFREON, 806,138, by Smith Kline & French Laboratories, Ltd., Welwyn Garden City, Herts.

For thermometers (9)

SOKKLEER, B802,254, by Britton, Malcolm & Co., Ltd., London, S.E.1.

For photographic, cinematographic and optical apparatus, and parts and fittings (9)

HERALD, 804,882, by Kodak, Ltd., London, W.C.2.

For cinematographic cameras and parts and fittings (9)

SINMOR, 808,209, by André Victor Léon Clément Debré, Paris 11e, France.

For photographic, cinematographic and optical apparatus and instruments, and parts and fittings (9)

JELCO, 808,720, by Mayfair Photographic Suppliers, London, N.W.3.

For air cushions and air pillows (all for surgical or curative purposes); elastic hose and stockings (surgical); feeding bottles; surgical gloves of rubber; infra-red and ultra-violet ray apparatus (all for medical or surgical purposes); friction machines for massage; and teething rings (10)

GUSSIE, 799,999, by Great Universal Stores, Ltd., Manchester, 12.

For hypodermic syringes and hypodermic needles (10)

Device with word HYPODISPOSABLE, 808,157, by Hypo Surgical Supply Corporation, New York 13, U.S.A.

From the "Trade Marks Journal," December 21, 1960

For shampoos and preparations for the hair (3)

GOLDWELL, B771,425, by "Goldwell," G.m.b.H. Chemische Fabrik H. E. Dotter, Darmstadt-Eberstadt, Germany.

For preparations for the hair (3)

AMIROL COME ALIVE, B781,781, by Clairol, Inc., Stamford, Connecticut, U.S.A.

For powders, creams, soaps and oils, all being non-medicated toilet preparations for infants (3)

Device with words GOLDEN BABE, 782,169, by Lilia-White (Sales), Ltd., London, E.C.1.

For perfumes, non-medicated toilet preparations and cosmetic preparations; essential oils; preparations for the hair, and soaps (3)

ROGI, 797,820, by Firma Robert Giesecke, Hanover, Germany.

For preparations for straightening the hair (3)

Device with numerals and word 1,2,3 STRATE, B798,552, by Capelle, Ltd., London, W.C.2.

For hair dyes (3)

REGOL, 803,247, by Kleinol-Produktion, G.m.b.H., Hamburg 36, Germany.

For perfumes, toilet preparations (not medicated), cosmetic preparations, dentifrices, depilatory preparations, toilet articles (not included in other

classes), sachets for use in waving the hair, soaps and essential oils (3)

VIT-HAMOL, 807,472, by Inter-Hamol, S.A., Zurich, Switzerland. MENTIS, 809,357, by County Laboratories, Ltd., Brentford, Middlesex.

For perfumed soap, perfumes, non-medicated toilet preparations, cosmetics, hair lotions and dentifrices (3)

Device with words SOIR DE PARIS, EVENING IN PARIS, BOURJOIS, 800,927, by Bourjois, Ltd., Croydon, Surrey.

For cleaning and bleaching preparations containing disinfectants and being for use on water closets (3)

MYDRILL, 805,860, by John James Mullen, Seaton Delavel, Whitley Bay, Northumberland.

For detergents for use in dish-washing machines (3)

LUSTRAL, 807,728, by Diversey (U.K.), Ltd., London, W.1.

For perfumes, cosmetics and non-medicated toilet preparations (3)

BACCARA, 808,855, by Merton Ian Behrman, London, N.W.9.

For all goods (3)

BRIGHT FUTURE, 809,337, by Richard Hudson, Morris Plains, New Jersey, U.S.A. BIO-TERGIC, 809,622, by Pharmacy Products (Overseas), Ltd., London, W.1. TAFFRAIL, 810,532, by County Laboratories, Ltd., Brentford, Middlesex.

For lipsticks; and lipstick cases and lipstick holders (3)

LOLLILIPS, 809,963, by Hearts Delight, Ltd., London, W.1.

For non-medicated hand barrier creams (3)

KEROMASK, 810,321, by Scientific Pharmaceuticals, Ltd., London, N.1.

For perfumes, non-medicated toilet preparations, cosmetic preparations, dentifrices, depilatory preparations, soaps and detergents (not for use in industrial or manufacturing processes) (3)

FLIMSIE, 810,527, by Co-operative Wholesale Society, Ltd., Manchester.

For disinfectants; preparations for killing weeds and destroying vermin; and insecticides, pesticides, fungicides, bactericides and germicides (5)

LONZA, 777,774, by Lonza Electric and Chemical Works, Ltd., Basle, Switzerland.

For pharmaceutical preparations and substances, all for the treatment of the feet (5)

PEDI-CAIRE, B796,107, by Cooper, McDougall & Robertson, Ltd., Berkhamsted, Herts.

For all goods (5)

PEDIC-AIRE, 796,108, by Cooper, McDougall & Robertson, Ltd., Berkhamsted, Herts. CONTRACYN, 801,640, by Norgine Pharmaceutical Products (London), Ltd., London, W.C.1. Device with letter D, 804,981, by Diversey (U.K.), Ltd., London, W.1. BIOTERGIC, 809,623, by Pharmacy Products (Overseas), Ltd., London, W.1. DIGEX, DIJEX, 810,341-42, by Boots Pure Drug Co., Ltd., Nottingham. STERAF-LAM, 811,290, by The British Drug Houses, Ltd., London, N.1.

For sedatives for use in the treatment of bronchial disorders (5)

RELAPAN, 801,287, by Beecham Research Laboratories, Ltd., Brentford, Middlesex.

For pharmaceutical preparations and substances for human and veterinary use (5)

HEDS, B801,461, by Chas. H. Phillips Chemical Co., Ltd., London, W.3. PULDYS, 807,507, by Winthrop Group, Ltd., Surbiton, Surrey.

For medicated beverages and tonic medicines (5)

CITRELIX, 801,491, by Citrelix, Ltd., London, E.C.4.

For mineral salts for pigs (5)

PIGMIN, 802,727, by William Morgan Davies, Hereford.

For pharmaceutical preparations and substances (5)

ALKYBICIN, 803,437, by Les Laboratoires Français de Chimiothérapie, S.A., Paris, 7e, France. UNINICOL, 808,415, by Uni-Chemie, A.G., Zurich, Switzerland.

For pharmaceutical and veterinary preparations, all in capsule form (5)

URACAP, 803,622, by Chas. Pfizer & Co., Inc., Brooklyn, New York, U.S.A.

For photographic, cinematographic and optical apparatus and instruments, and parts (9)

Device, 806,955, by W. Haking Industries (Mechanics and Optics), Ltd., Hong Kong.

For insecticides and weed-killing preparations (5). Device with words CHESSWOOD BRAND, 804,251, by A. G. Linfield, Ltd., Thakeham, Sussex.

For photographic cameras incorporating flashlight devices (9)

FLASHMITE, B801,881, by Kodak, Ltd., London, W.C.2.

For infants' and invalids' foods, and dietetic foods. (5)

FLORIMEL, 805,680, by Energen Foods Co., Ltd., London, N.W.10.

For pharmaceutical and veterinary preparations (5)

PEN-ZED, 807,452, by Chas. Pfizer & Co., Inc., Brooklyn, New York, U.S.A.

For pharmaceutical preparations for the treatment of backache, lumbago, sciatica and similar ailments (5)

BAKDREX, 810,693, by Phillips, Scott & Turner, Ltd., Newcastle-on-Tyne, 1.

For pharmaceutical preparations for the treatment of rheumatism and similar ailments (5)

RHEUMADREX, 810,699, by Phillips, Scott & Turner, Ltd., Newcastle-on-Tyne, 1.

For shaving instruments and parts and razor-blades (8)

Device with words and numerals AETERNA 40, B799,396, by Svenska Raktadsfabriken, A.B., Grästorp, Sweden.

For photographic, cinematographic and optical apparatus, and parts and fittings (9)

STARMITE, 801,215, by Kodak, Ltd., London, W.C.2.

For photographic and cinematographic instruments, apparatus and utensils, and parts and fittings of the aforesaid goods (9)

ARIOSIA, 803,320, by Photopia, Ltd., Newcastle, Staffs.

CONTEMPORARY THEMES

Subjects of contributions in current medical and technical periodicals.

ETHANOLAMINE and CHOLINE, anti-anaphylactic activity of, *J. Pharm. Pharmacol.*, January.

PROCAINE action at the neuromuscular junction, *J. Pharm. Pharmacol.*, January.

POLYMETHYLENE-BIS-4-AMINODIQUINALDINIUM SALTS, activity of, against *Pityrosporum ovale* and *Candida albicans*, *J. Pharm. Pharmacol.*, January.

ANTIBIOTICS, concentration of, in milk after intramammary infusion, *Vet. Rec.*, December 24, 1960.

PHthalic ANHYDRIDE, review of, *Chem. Week.*, December 10, 1960.

ITALIAN DRUG INDUSTRY, review of, *Chem. Week.*, December 10, 1960.

1,3-DIALKYL-6-THIOXANTHINES: a new series of bronchodilators and coronary vasodilators, *Nature*, December 24, 1960.

RESERPINE ANALOGUES, *Nature*, December 24, 1960.

ADRENALINE and blood lipids, *Nature*, December 24, 1960.

α -AMINOADIPIC ACID, mechanism of activation and reduction of, by yeast enzyme, *Nature*, December 31, 1960.

RESERPINE DEPRESSION, accelerated recovery from, by monoamine oxidase inhibitors, *Nature*, December 31, 1960.

BLOOD CORTICOTROPHIN in Cushing's syndrome, *Nature*, December 31, 1960.

STRONG LEAD SUBACETATE SOLUTION, B.P., new procedures for the assay of, *Ind. J. Pharm.*, November 1960.

INDIAN JALAP, identity of, *Ind. J. Pharm.*, November, 1960.

CARDIOVASCULAR THERAPY, *Practitioner*, special number, January.

HYPOTENSIVE DIURETICS, *Practitioner*, January.

ACNE VULGARIS, treatment of, with graded abrasive creams, *Practitioner*, January.

POLIO-MYELITIS, early diagnosis of, *Med. Press.*, December 28, 1960.

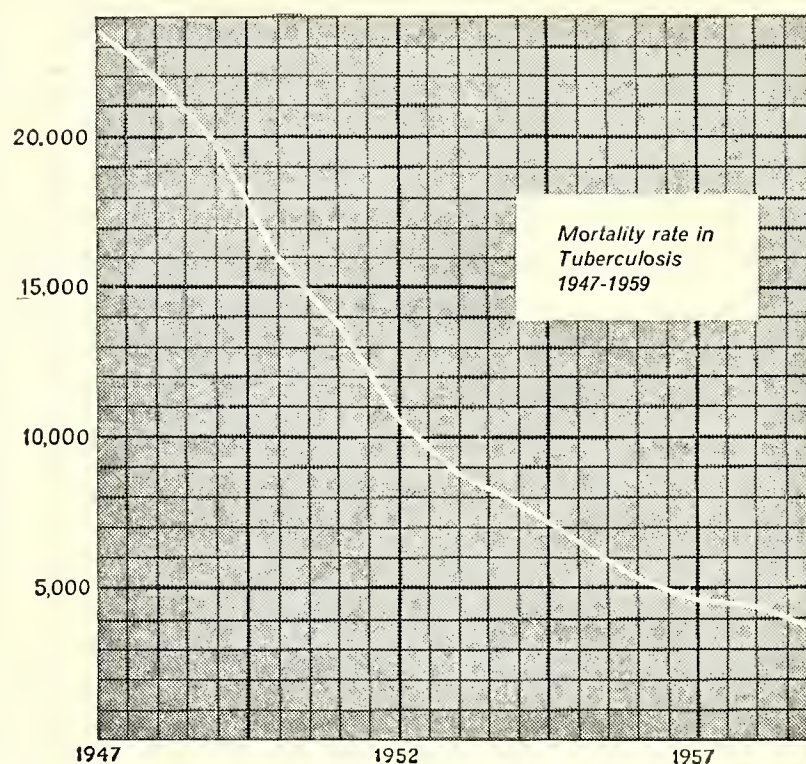
MEDICAL PSYCHOLOGY in industry, *Med. Press.*, December 28, 1960.

ANABOLIC HORMONES in dermatomyositis, *Brit. med. Press.*, December 31, 1960.

RESPIRATORY INSUFFICIENCY, new drugs in the treatment of, *Brit. med. J.*, December 31, 1960.

VITAMIN B₁₂ CO-ENZYME, some structural observations on, *Proc. chem. Soc.*, December, 1960.

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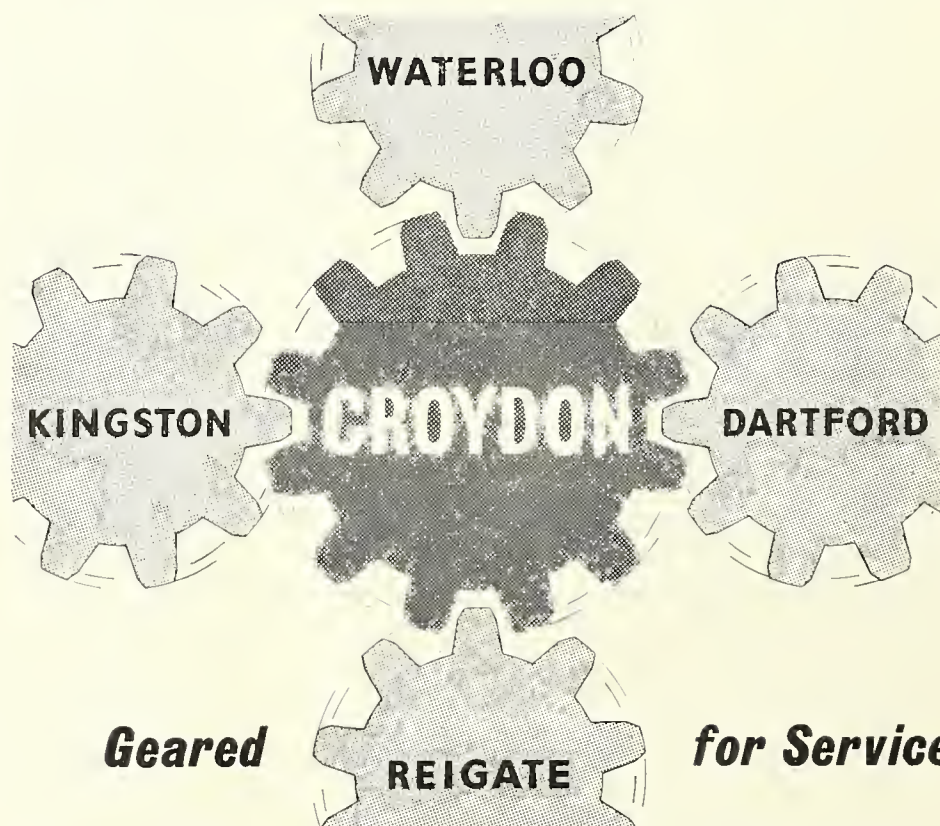
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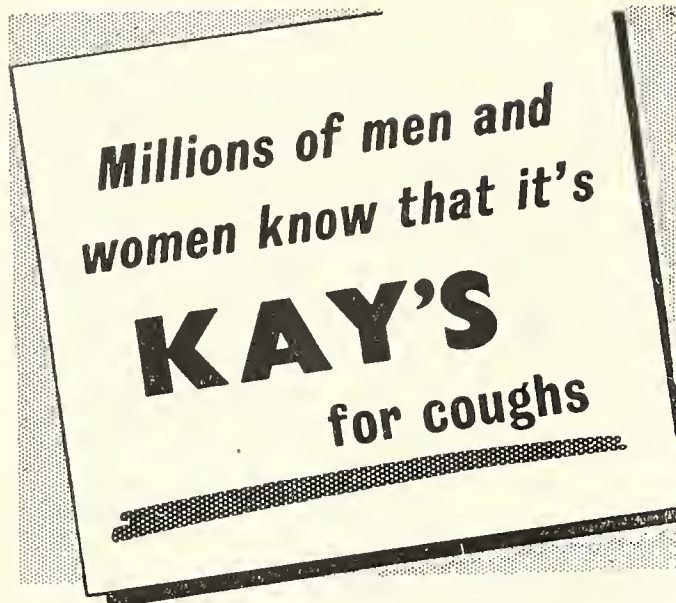
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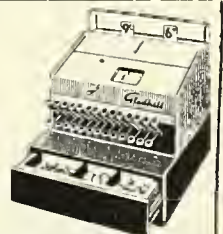
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		Wood, Bastow & Co., Ltd.	19



Modern Pharmacy demands Essential links in the chain of service

We alone can offer that personal touch resulting from our long experience. Our stock includes:- Pharmaceuticals, Drugs D.D.A., Galenicals, Proprietarys, Patent Medicines, Sundries, Surgical, Photographic, Electrical.

Order DAY or NIGHT for twice daily deliveries—

—plus a 2 hour "Ethical" Service

Phone: Daytime 51911 (10 lines) Phone: Night-time 52345/6/7 Auto. Tele. Ansafone



Completing the chain of service since 1830 to 1960—

The House of Haywood

**WARSER GATE
NOTTINGHAM**

a long-acting and low-dosage phenothiazine



Squibb Fluphenazine Dihydrochloride

for emotional equilibrium in anxiety and
tension states and in psychosomatic conditions

SQUIBB



MODITEN is a SQUIBB TRADEMARK
E. R. SQUIBB & SONS LIMITED
Speke Liverpool 24

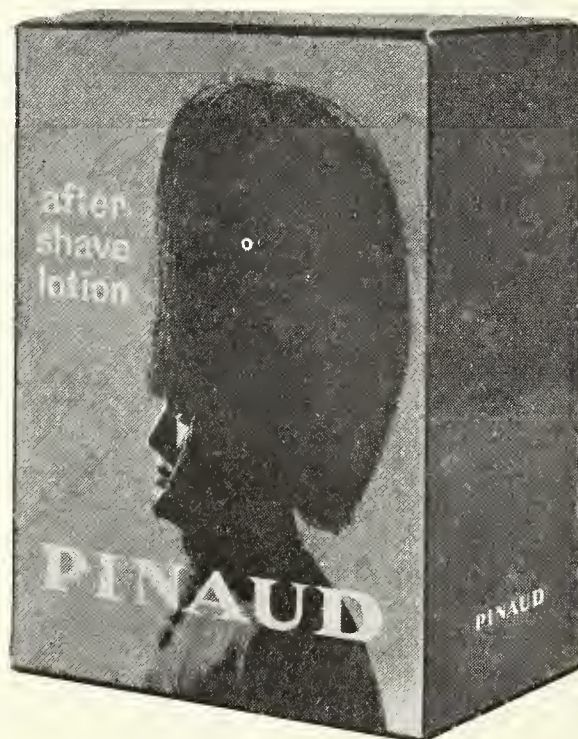
A dosage of 1 mg. once a day assures 24-hour
emotional equilibrium in the tense and anxious
patient

MODITEN 1 mg. TABLETS
Available in Bottles of 25, 100 and 500
Trade Prices 7/6, 27/-, £6.10.0 (Plus P.T.)

PINAUD

*wish you
a Prosperous New Year
with their wide range of
world famous toiletries*

which will be advertised in 1961 more consistently than ever before

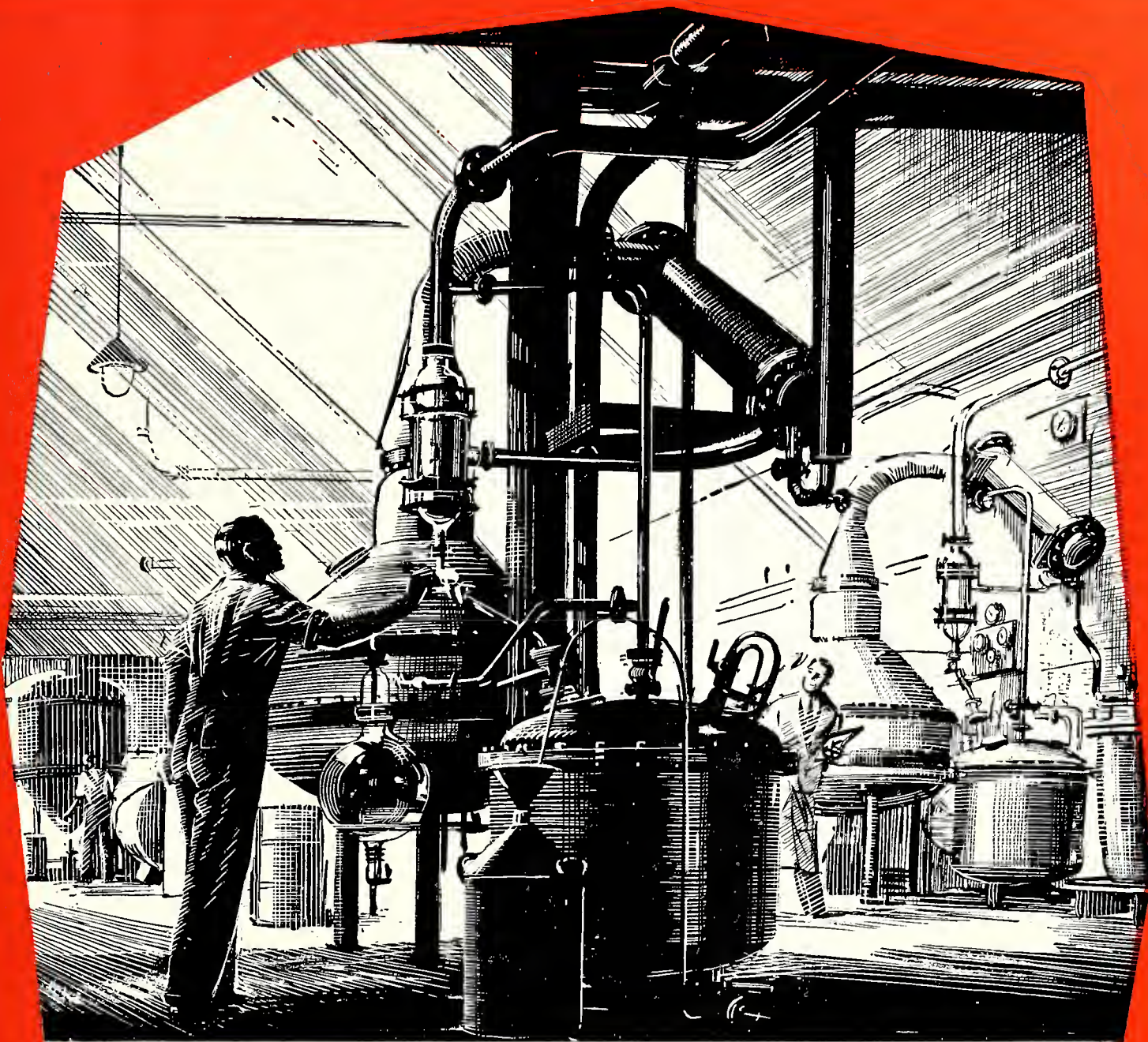


This is the standard Display pack. Once again big sales at Christmas have proved that men's toiletries make the ideal gift. PINAUD all-the-year-round GIFT packs for Birthdays, Presentations, Anniversaries etc. are also available at no extra charge. Order some today from your Wholesaler or direct from BIOMETICA LTD., 1 ELSTREE WAY, BOREHAM WOOD, HERTS.

After Shave Lotion 7/-	•	Pre-Shave 8/4	•	Deodorant Cologne 10/-
Tonic Hair Lotion 8/4	•	Shampoo 5/10	•	Lather Shaving Cream 3/10

OLD FAVOURITES in the traditional Pack are still available and selling better than ever — LILAC VEGETAL, VIOLETTE DES BOIS ETC., ETC.

**The demand for men's toiletries is ever increasing
PINAUD backs you with QUALITY and PRESENTATION**



Essential Oils

English Distilled & Imported ESSENTIAL OILS,
Terpeneless & Sesqui-terpeneless ESSENTIAL OILS,
PERFUMERY ISOLATES, PERFUMERY COMPOUNDS
VERARÔMES

Samples and quotations sent on request

StaffordAllenS

STAFFORD ALLEN & SONS LTD., WHARF ROAD, LONDON N.12

TAS/SA. 643

From January 2nd to March 31st

HALEXPANSIVE TOOTHBRUSH OFFER



When you order
6 dozen Halex
toothbrushes,
you get
14 to the dozen

When you order
12 dozen,
you get
15 to the dozen



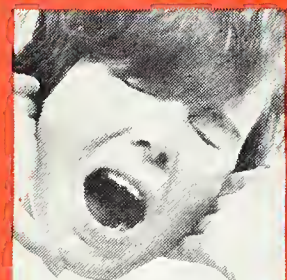
THE HALEXPLOSIVE ADVERTISING CAMPAIGN STARTS THIS SPRING!

Really *intensive* advertising starts in the Spring. These gay and compelling advertisements will be appearing in all the leading women's magazines. They'll be seen by literally thousands of readers. So be prepared to meet the Halexpllosion!

Halex also offer you FREE

Attractive dispensers designed for easy serving, maximum sales.

Every dispenser is sturdily made in chromium-plate wire, and cleverly designed to take up the least amount of counter space possible. The headboards with the brand name HALEX are simple and striking.



Rise &
Shine
with
HALEX



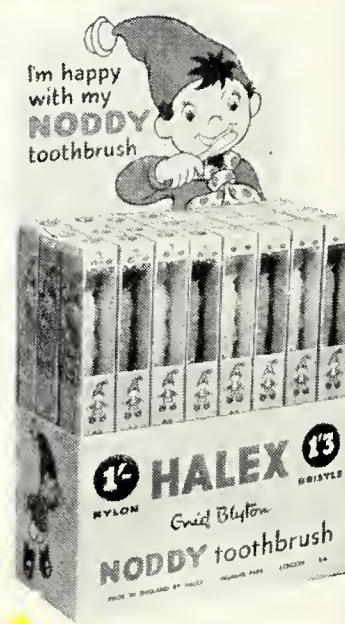
toothbrushes
and combs

multiferous!

HALEX



A 636 Dispenser holding 3 dozen Assorted Nylon toothbrushes (including the new Multituft). Similar dispensers, A 644 Assorted Nylon and A 637 Assorted Bristle.

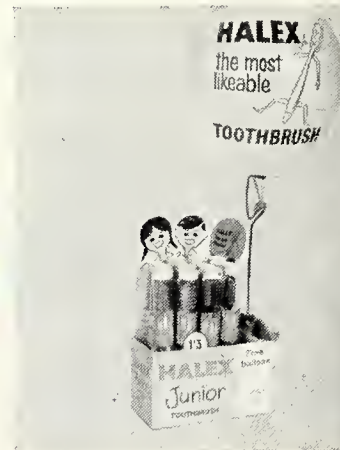


A 629 Appealing "Noddy" dispenser containing one dozen nylon and one dozen bristle toothbrushes



A 632 Dispenser for 1 dozen Smoker's Brushes. Extra hard texture. (Free with two dozen brushes.)

A 193 Charming Children's toothbrush dispenser carrying 1 dozen Junior Short Head toothbrushes, in hygienic cylindrical packs. A free balloon with each toothbrush.



HALEX TRAVAGANT COMB OFFER

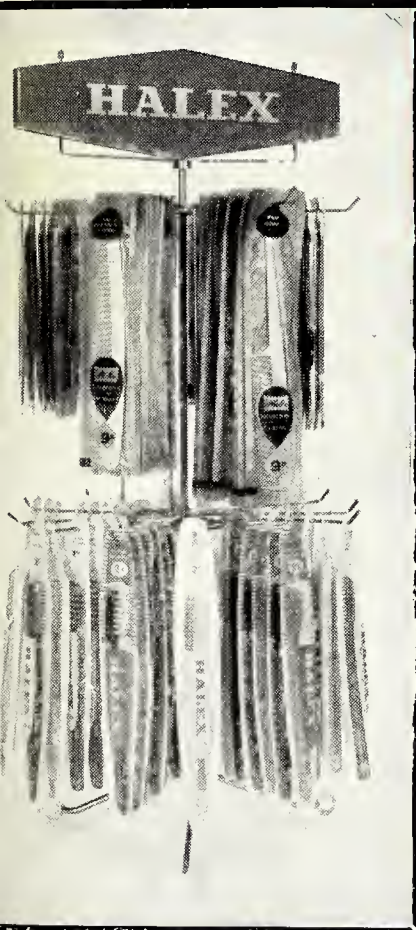
HALF A DOZEN
FREE!



When you order
6 dozen Halex
combs,
you get
13 to the dozen

When you order
12 dozen,
you get
14 to the dozen

THAT'S 24
HALEXTRA!



And now
Halex Super Imprene combs
in a special new pack

**EACH TOOTHBRUSH AND
EACH COMB IS
INDIVIDUALLY PRICED**

A 645 Attractive 'roundabout' dispenser. It carries as many as 6 dozen assorted toothbrushes and 6 dozen new Super Imprene combs, yet it takes up very little counter space. Wide range of prices.

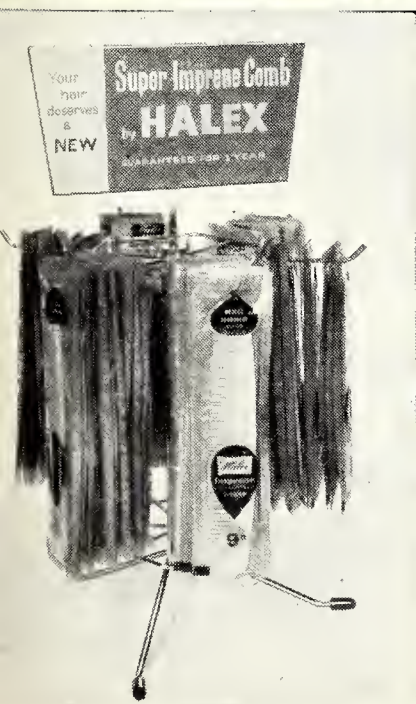
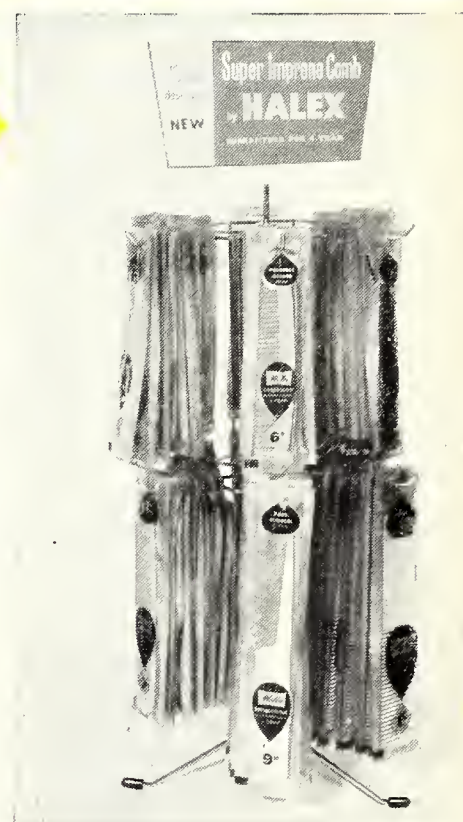
C 695 Rotating dispenser holding one gross of the popular new Super Imprene combs.



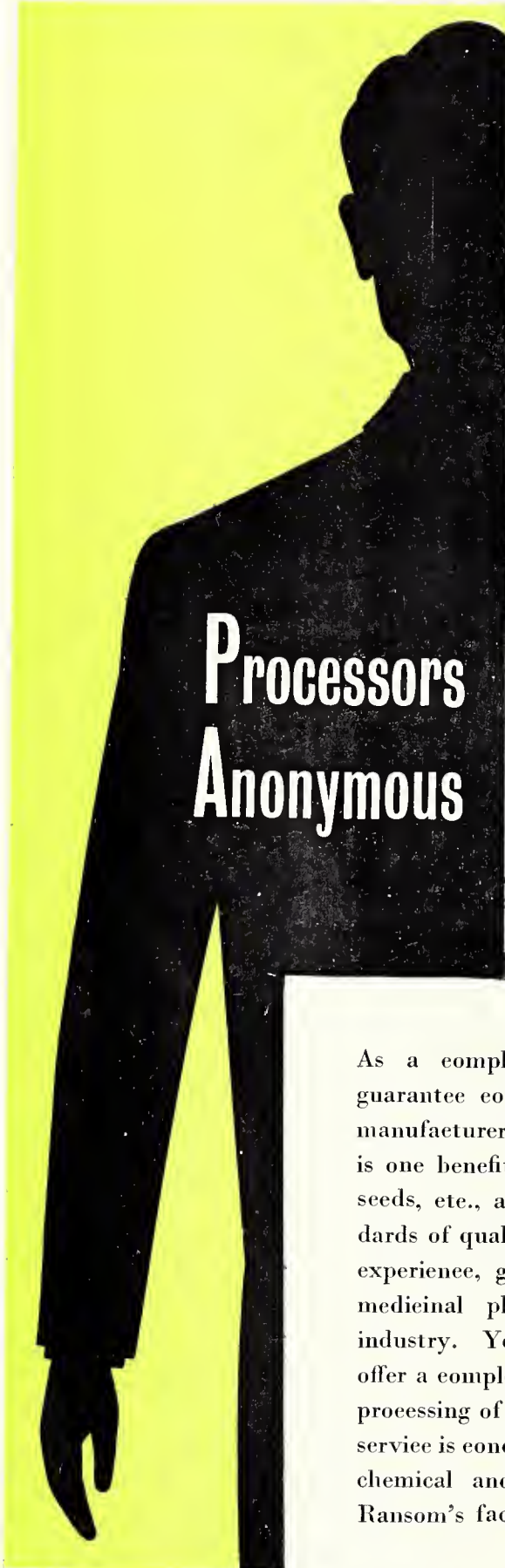
C 674 Compact dispenser for 6 dozen guaranteed nylon combs.

C 696 Dispenser for 6 dozen assorted Imprene combs. Also available, a similar dispenser, C 697, for 6 dozen shell and black combs.

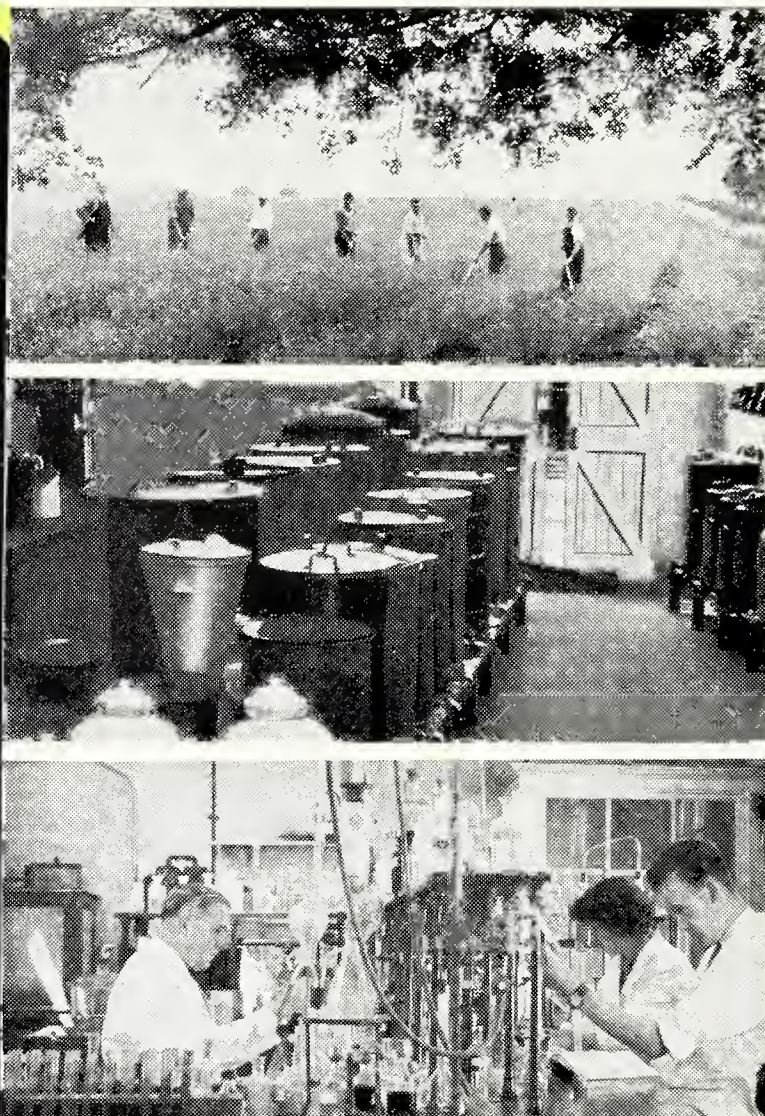
C 671 Neat dispenser for 4 dozen assorted nylon combs. Also similar dispenser (C 672) for 4 dozen shell and black combs.



ORDER NOW from your usual wholesaler



Processors Anonymous



As a completely self-contained family business Ransom's can guarantee conditions of strictest confidence to all wholesalers and manufacturers using their Trade Processing Service. This, of course, is one benefit among many. Send them your roots, barks, leaves, seeds, etc., and expect nothing less than the highest possible standards of quality in the finished product. Ransom's unique skill and experience, gathered in over a century of growing and processing medicinal plants, is recognised throughout the pharmaceutical industry. You are invited to use it and to note that Ransom's also offer a complete service—from raw materials to final packing—in the processing of proprietaries to your private formulas. This specialised service is conducted under the supervision of qualified pharmaceutical, chemical and research personnel in the modern laboratories of Ransom's factory at Hitchin. Trade enquiries are invited.



WILLIAM RANSOM & SON LTD.
HITCHIN • HERTFORDSHIRE • ENGLAND

FOR GLAMOUR WITHOUT GLARE...

WHITECROSSThe latest fashion in continental
Sunglasses for the 1961 season.Ask your usual wholesaler
for illustrated catalogue
showing our complete
range retailing from 2/6.**THE WHITECROSS 'SUN-MASTER'**An attractive revolving display stand supplied FREE
with 48 pieces of assorted black & shell sunglasses
as follows:—

Prices to Public

- 12 Pieces **614NEW** 6 each black & shell ... 7/6 each
- 12 Pieces **6596/K** 6 each black & shell ... 10/6 each
- 12 Pieces **6364/1/K** 6 each black & shell ... 12/6 each
- 12 Pieces **6299 K** 6 each black & shell ... 15/6 each

These glasses are also separately supplied.

SEE US AT HARROGATE
GRAND HOTEL ROOM 210

REG. TRADE MARK

Whitecross Optical Company

(Proprietors, Fredk. Lehmann Co Ltd.)

Frederick Works, Rochester Place, London N.W.1

Telephone: GULiver 6731

Soft, Supple Skin
ensured with**SPLENDID FORMULATION****NON-GREASY****READILY ABSORBED****ATTRACTIVELY
PACKED****VI-LAN**
Lanolin Cream
Soothing and Cooling

Yields 42% on selling price
when you buy now on bonus terms
3 dozen lots 9/- per dozen,
plus 25% purchase tax
Bonus—twelve for the price
of eleven

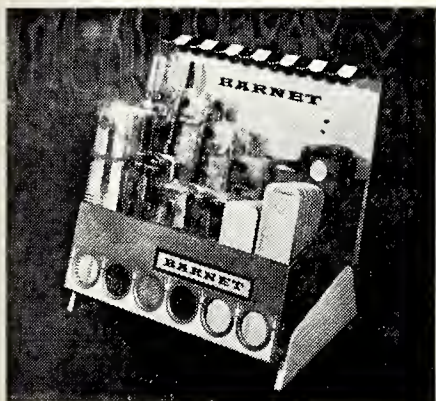
DISPLAY & RECOMMEND VI-LAN FOR
ELEGANT HANDS & SKIN,
TO ENSURE REPEAT PROFITABLE BUSINESS

Sample free on request

THORNTON & ROSS
LIMITED
LINTHWAITE LABORATORIES
HUDDERSFIELD ENGLAND



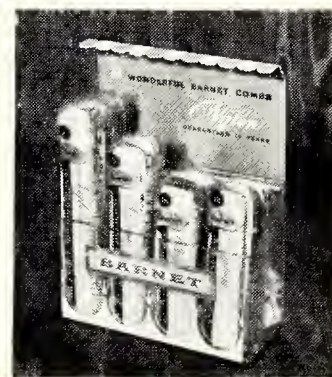
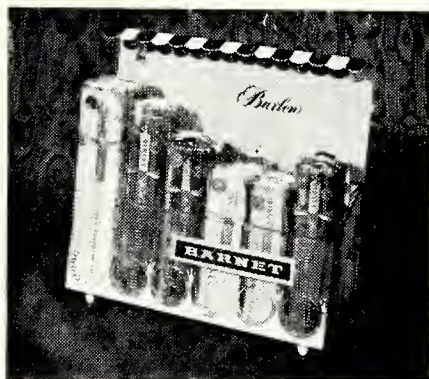
Combs sell and sell from these gay new Barnet cabinets



With such smart new merchandisers doing the selling for you, you can always add an "impulse" comb sale to other buys at over-average profit, even more profit each time you top up with Barnet refills. Easy. And remember, combs sell all the year round.

There's eleven elegant Barnet cabinets to choose from to suit you best.

Get your 1961 cabinets with BONUS by ordering from your wholesaler now.



**BONUS OF SIX FREE COMBS
WITH EVERY LARGE CABINET**

3 FREE with small cabinets ordered before Feb. 15th, 1961

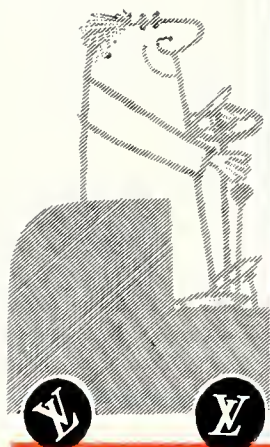
BARNET COMBS

A little bit of counter sells a lot of



E. R. HOLLOWAY SALES LIMITED (Wholesale only) Bessemer Road, Welwyn Garden City. Phone: Welwyn Garden 4444

Vitamins in Bulk



Natural & Synthetic Vitamin A
 Vitamin B₁ (Aneurine Hydrochloride B.P.)
 Vitamin B₂ (Riboflavine B.P.)
 Vitamin B₆ (Pyridoxine Hydrochloride B.P.C./U.S.P.)
 Vitamin B₁₂ (Cyanocobalamin B.P.)
 DL. Calcium Pantothenate U.S.P.
 Vitamin C (Ascorbic Acid B.P.)
 Vitamin D₂ (Calciferol B.P./U.S.P.)
 Vitamin D₂ (Oily Concentrate)
 Natural Vitamin E
 (d-Alpha Tocopheryl Acetate)
 (d-Alpha Tocopheryl Acid Succinate)
 (Mixed Tocopherols)
 Natural Vitamin E (Feed Grade)
 Folic Acid B.P./U.S.P.
 Inositol
 Nicotinic Acid B.P.
 Nicotinamide B.P.

Get your vitamins from
VITAMINS LIMITED

Bulk Sales Dept. Vitamins Limited (Dept. A.A.8),
 Upper Mall, London, W.6. Telephone: Riverside 5001
 Telegrams: VITAMINS, LONDON, TELEX.

NOW Gnome INTRODUCE-
Europe's most advanced Projector

COVERS
 4 × 4 cm.
 SUPER
 SLIDES

LITEMASTER

2 × 2 300 watt PROJECTOR



Price from
 £24.15.6d.

*** FULLY AUTOMATIC**

Gnome PHOTOGRAPHIC PRODUCTS LIMITED, CAERPHILLY ROAD, CARDIFF



"Eagle" Brand Chemicals

PHOTOGRAPHIC CHEMICALS
 SODIUM METABISULPHITE
 SODIUM HYPOSULPHITE
 (Crystals and Anhydrous)
 SODIUM SULPHITE
 (Crystals and Anhydrous)
 EPSOM SALTS B.P.
 GLAUBER SALTS B.P.
 SULPHUR (Ground and Unground)
 ACCUMULATOR ACID

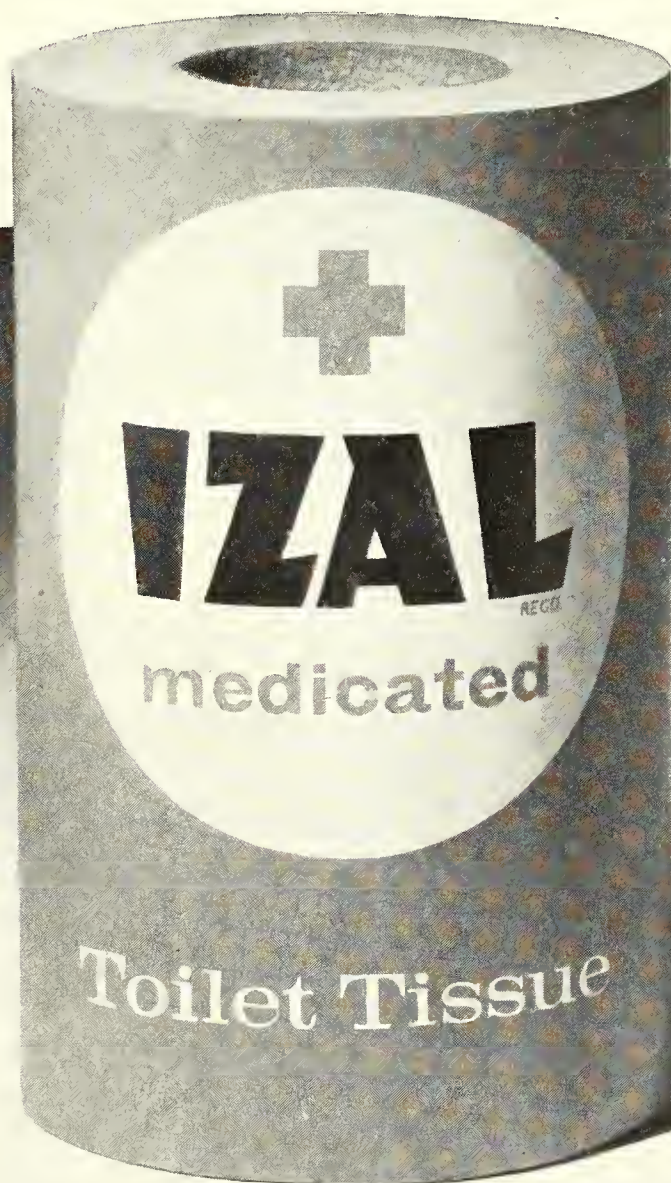
Enquiries Invited

WILLIAM BLYTHE & CO., LTD.
 HOLLAND BANK CHEMICAL WORKS, CHURCH
 LANCASHIRE

Tel: 32141/2 ACCRINGTON

Grams: BLYCO, ACCRINGTON

A new price—a new pack —and increased profit



As from January 1st, the new retail selling price of the Izal Medicated Roll will be 1/3. Details of new trade margins and terms from your wholesaler or Newton Chambers representative.

The new pack will be gradually introduced during the year.

NEWTON CHAMBERS & COMPANY LIMITED, THORNCLIFFE, Nr. SHEFFIELD

PRICES REDUCED!

With effect from Monday, 2nd January, 1961 the trade prices of DC(B)L Penicillin V and V-K Liquid Preparations will be reduced to the levels given below:

TRADE PRICES

'DISTAQUAINE' V

ELIXIR	4/11
ELIXIR FORTE	11/10

'DISTAQUAINE' V-K

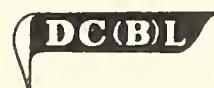
ready-prepared SUSPENSION **6/4**

For 'open' prescriptions—the new ready-prepared

SUSPENSION PENICILLIN V POTASSIUM

60 mg. per 5 ml.

3/8



Special Claim Forms have been mailed to the Trade and should be completed and returned by Saturday, 14th January, 1961.

THE DISTILLERS COMPANY (Biochemicals) LIMITED
Broadway House, The Broadway, Wimbledon, London, S.W.19 Tel: LIBerty 6600
Owners of the trade mark 'DISTAQUAINE'

PFE 5860

you'd never guess I wear elastic hosiery

Jayskin
TWO-WAY-STRETCH
SURGICAL ELASTIC
HOSIERY

Self measurement forms
and fitting guide supplied.

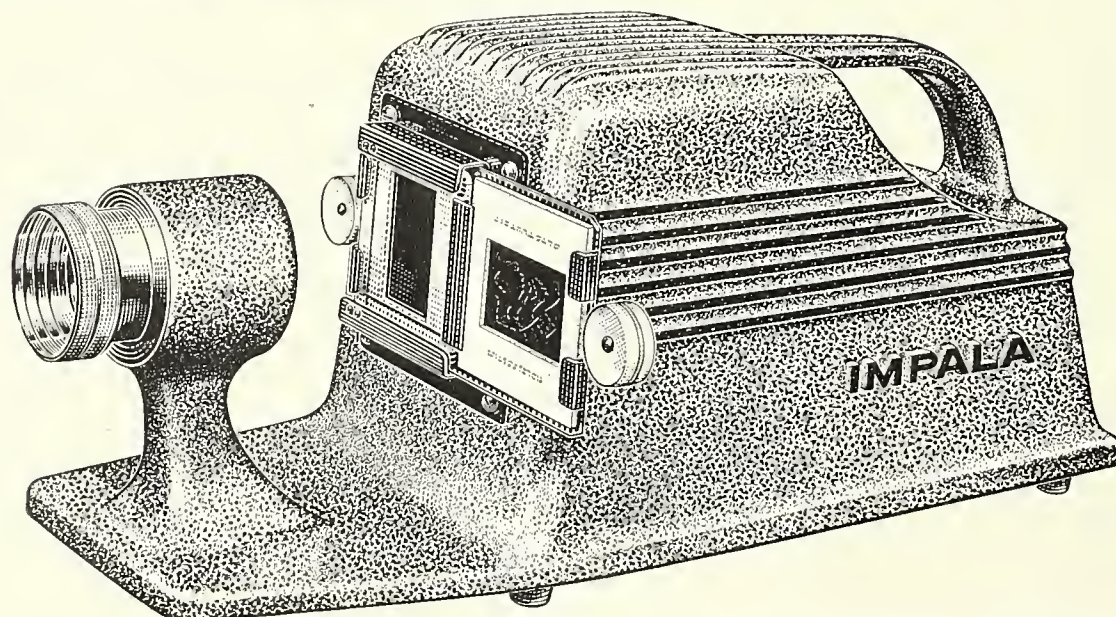
Made in cotton or nylon to
N.H.S. Specification and
packed in attractive boxes.

**Made to measure hosiery
despatched by return.**

WOOD BASTOW (ELASTICS) LTD.

Dove Green, Selston, Nottinghamshire.
and at Victoria Road, Pinxton, Notts.

**This is the one
they are looking for now . . .**



... because for
only £7.19.6 the
IMPALA gives you
these exclusive features . . .

The IMPALA TEST

Left switched on for several hours, the IMPALA remained cooler than other projectors switched on for one hour only.

Switched on and off, continually for several hours, shaken and man-handled, the lamp never failed.

- *f/3.2 three element 85 mm. Palchromatic lens. Gives picture 3ft. sq. at 7ft. with positive edge to edge definition—no fall off.*
- *Projection at any angle—without the lamp blowing.*
- *Lamp included in price.*
- *Spring held slide holder. No shake or tremor.*
- *Coolness. The IMPALA stays extremely cool during use, does not overheat.*
- *Built-in transformer to 6 volts. Replacement lamp for only 4/-.*

**Order the IMPALA today. It's the best buy
in projectors yet.**

MORRIS-WHITAKER LIMITED

5 & 6 Lorrimore Buildings, Olney Road, Walworth, London, S.E.17 Tel : RODney 8813

~~PETROLE HAHN~~ - now known as



HAHN

HAIR TONIC



PRICES

Retail Price **5/6**

Trade price **33/-** per doz.
plus 50% P. Tax

Retail Price **8/6**

Trade price **51/-** per doz.
plus 50% P. Tax

W. B. CARTWRIGHT LTD., RAWDON, LEEDS

YOU CAN BANK ON THIS

*At lambing time
'Wellcome' brand Concentrated
Lamb Dysentery Antiserum
is the first choice of farmers*

They know that for the prevention of lamb dysentery they can place complete reliance on the antiserum produced in the Wellcome Research Laboratories. Profit by their experience. Stock up now with 'Wellcome' Concentrated Lamb Dysentery Antiserum. Keep it constantly before your farming customers. Sell it with confidence—you are providing the best possible protection against a killing disease. At the end of the season you will have a more than worthwhile profit to record in your ledger, and the satisfaction of knowing that you have helped to safeguard Britain's lamb crop.

STOCK, FEATURE *and* SELL

'Wellcome' BRAND Concentrated
Lamb Dysentery
Antiserum



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.)

The Wellcome Building, Euston Road, London N.W.1. Tel. EUSton 4477 and at 18 Merrion Square, Dublin. Tel. 65751/2

Velouty

de DIXOR

POWDER CREAM



There is always a regular demand for this beauty preparation. Persistent National advertising is increasing its popularity and creating valuable sales which you can share. Display Velouty Powder Cream now.

Shades
IVORY NATURAL PEACH SUNGOLD
OCHRE APRICOT and RACHEL
TUBES No. 2 No. 3
TRADE 7/6 doz. 12/3 doz. RETAIL 1/3 ea. 2/1 ea.
JARS: TRADE 17/2 doz. RETAIL 2/11

DIXOR

Overnight

CREAM

FOR BEAUTY IN THE MORNING

During the hours of sleep Dixor Overnight Cream will work with nature to repair damage done to the delicate tissues of the skin during the daytime and help to restore the skin to vital radiant health.

TRADE 15/- DOZ.
RETAIL 2/6 EACH.



DIXOR Limited **ST. LEONARD'S RD**
MORTLAKE
LONDON, S.W. 14



THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 175

January 7, 1961

No. 4221

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PUBLISHED BY

MORGAN BROTHERS (PUBLISHERS), LTD.,
 at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565

Telegrams: Chemicus, Estrand, London

WOLVERHAMPTON: 89 Woodland Avenue, Tettenham Wood.
 GLASGOW: 160 Nether Auldhouse Road, S.3. Phone: Langside 2679.
 LEEDS: 16: 32 Wynford Rise, West Park. Phone: Leeds 61 8438.

ANNUAL SUBSCRIPTION

which includes The Chemist and Druggist Diary and Year Book. £2 10s. Single copies one shilling each.

**BECAUSE IT IS
TRUSTED TO PROTECT
PERFECTLY...**



GLASS packing actively influences choice of pharmaceuticals

A mother's protective instinct is keenest when she's buying for her child. That is why glass scores so decisively as the packing material for pharmaceuticals. A mother trusts glass... completely. She knows a glass container protects perfectly, and cannot affect the quality of its contents. Something new and interesting is always happening in the glass container industry. Your Glass Manufacturer always welcomes the opportunity of discussing the latest developments with you.

PROVE IT WITH A PRACTICAL TEST ON YOUR PRODUCT

The Glass Container-acceptance Testing Service provides Packers with facilities to test consumer reaction to new pack designs BEFORE they go into mass production — in any, or all, of the following progressive stages:—

DESIGN PREFERENCE TESTING Any new design can be tested on a consumer panel of 400 families.

CONTAINER IN USE TESTING The new container and its product can be tried in actual use in the home.

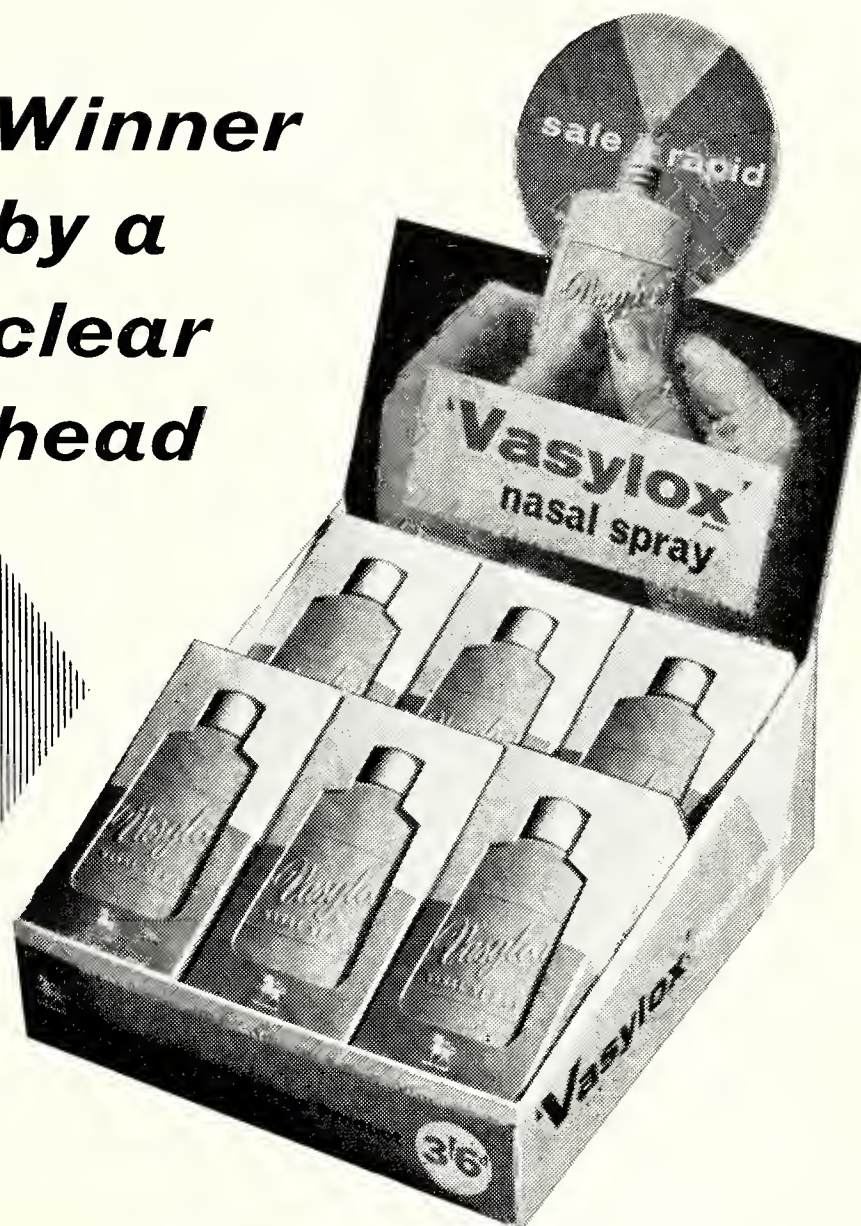
RETAIL TESTING The sales appeal of a new container can be tested under actual retail conditions.

Further details of this service are contained in a booklet which you can get from your Glass Manufacturer or from the Federation.

See how good things are in **GLASS**



**Winner
by a
clear
head**



**avail
yourself
of this
BONUS
OFFER**

**before
February
28th**

'Vasylox' BRAND **drops or spray**

13 TO THE DOZEN on orders of three or more complete dozens (Drops or Spray or both)

You will clear your shelves almost as rapidly as 'Vasylox' clears the customer's head if you display this attractive new outer. Stock up now, at the time of colds and catarrh.



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) **LONDON**



CUMULATIVE LIST OF AMENDMENTS TO THE C.&D. Quarterly Price List

DECEMBER 1960

● THIS WEEK'S CHANGES GIVEN SEPARATELY AT END

Abicol (147 Boots) tablets	100 500	14 64	Oea Oea		18 85	8 ⁺ s4B 4 ⁺ s4B
Acme (7 Acme) vacuum flasks						
Rambler ..	16 oz	46	6	5 7	4 11	
Wayfarer ..	16 oz	54	4	6 6	6 7	
	36 oz	90	1	10 10	10 11	
	slim	8 oz	48	10	5 11	5 11
	squat	8 oz	48	10	5 11	5 11
Voyager ..	8 oz	57	0	6 11	6 11	
	16 oz	63	4	7 7	7 8	
jugs						
No. 5 ..	16 oz	131	6	15 10	15 11	
Chiltern ..	16 oz	288	0	34 8	35 0	
<i>Delete</i> Ripple flasks all sizes						
<i>Delete</i> Tartan flasks all sizes						
Aethar (61 APC) lyophilised						
intramuscular or subcutaneous						
10i.u. vial	29	0	..	..	..	†TS
25i.u.	67	0	..	..	..	†TS
40i.u.	106	0	..	..	..	†TS
intravenous						
30i.u.	32	0	..	..	..	†TS
75i.u.	78	0	..	..	..	†TS
HP gel						
intramuscular or subcutaneous						
20i.u./mil 5 mils vial	20	Oea	..	..	..	†TS
40i.u./mil 2 mils	14	Oea	..	..	..	†TS
40i.u./mil 5 mils	32	10ea	..	..	..	†TS
Adcortyl-A (1176 Squibb) suspension ..	5 mils	43	6	..	65	3 TS
Aidex (339 CG) ..	..	17	0	4 3	2	6
Allercur (1107 SAGB) tablets 20 mgm ..	20	2	5ea	..	3	8 pls7
Altatur (1153 SKF) tablets 250 mgm ..	20	40	Oea	..	60	0
	200	380	Oea	..	570	0
Asmal (901 Norton) tablets ..	..	..	..	..	..	†s1s4A
	100	60	0	..	..	†s1s4A
	500	240	0	..	..	†s1s4A
	1000	37	6ea	..	..	†s1s4A
Astral (509 Gibbs) cream ..	..	8	9	4 3½	1	4
	..	15	0	7 3½	2	4
	..	27	5	13 4½	4	3
	hp	76	0	37 0½	12	0
Ayrton (78 AS&Co) burn cream ..	..	16	0	..	2	0
corn and wart paiut ..	..	9	8	2 5	1	6
earache drops ..	..	9	8	2 5	1	6
eau de Cologne (toilet) 5 oz	..	20	0	10 0	3	6
10 oz	..	33	0	16 6	6	3
Fullers earth cream .. tin	..	8	0	2 0	1	3
lavender water (toilet) 5 oz	..	20	0	10 0	3	6
10 oz	..	33	0	16 6	6	3
menthol and wintergreen						
balm tube	16	0	4	0	2	6
mustard ointment ..	12	9	3	2½	2	0
myrrh and borax .. 1 oz	12	0	..	..	1	6
<i>Delete</i> iced eau de Cologne ..	..	..	..	..	..	..
<i>Delete</i> iced lavender water ..	..	..	..	..	..	..
Bengue's (115 Bengue) new balsam ..	½ oz	17	6	4 3	2	4
	1 oz	27	6	6 8½	3	8
Bex (560 Halex) medicine measure 2 oz M203						
Bex-Bissell (560 Halex) shampoo master	W400	45	Oea	..	67	6
Bismag (655 ICC) powder ..	..	15	2	3 10	2	0
	..	28	4	7 1	3	9
Bisma-Rex (1053 Rexall) powder ..	..	24	6	6 1½	3	6
	..	38	0	9 6	5	6
	..	70	0	17 6	10	0
tablets ..	40	17	6	4 4½	2	6
	100	35	0	8 9	5	0
Blue Velvet (1155 S&N) hand lotion ..	264	10	6	5 3	1	9
	265	16	6	8 3	2	9
Brietal (413 Lilly) sodium ampoules 0.5 gm 50 mils	..	88	0	..	11	0 †s1s4A
Calvert's (219 Calvert) tooth powder ..	..	14	2	3 6½	1	11

Cheroline (1329 White) cough linctus ..	4 oz	15	0	3 9	2	0
Chymar (61 APC) aqueous ..	vial 5 mils	30	Oea	..	45	0
<i>Delete</i> Ciloprine (768 Cilag) weedkiller ..	5 mils	..	..	..	..	..
Clean Lawn (1037 Reckitt) weedkiller ..	..	16	0	..	2	0
	..	28	0	..	3	6
Clean Leaf (1037 Reckitt) insecticide ..	..	28	0	..	3	6
Co-Deltra (837 MSD) tablets 5 mgm ..	30	11	Oea	..	..	..
	100	32	6ea	..	..	..
	500	155	Oea	..	..	..
Co-Hydeltra (837 MSD) tablets 5 mgm ..	30	11	Oea	..	..	..
	100	32	6ea	..	..	..
	500	155	Oea	..	..	..
Colgate (280 CP) dental cream ..	..	14	7	3 8	1	11
	..	20	11	5 2	2	9
	..	27	10	6 11	3	8
Cordocel (267 C&A) antiseptic cord powder	..	24	0	..	3	0
Cortico (324 Crookes) gel long-acting	..	..	..	..	..	..
	20i.u./mil 5 mils	16	9ea	..	..	†TS
	40i.u./mil 5 mils	27	6ea	..	..	†TS
Cortril (969 Pfizer) spray ..	1 oz	102	0	..	12	9 TS
<i>Delete</i> Cycloal (971 PSMB) sodium tablets 250 mgm ..	100	..	..	..	..	..
Cuckoo (543 Fecher) babies ear caps ..	..	44	0	2 0	5	9
	..	3	9	1 10½	8	..
Deep (102 CB) pumice stone ..	..	..	..	..	..	..
<i>Delete</i> soap treatment ..	..	20	0	5 0	3	0
Delton (714 Koray) ..	10	..	..	..	..	..
	100	..	..	..	..	..
Denisol (1106 S) paste	..	20	6	5 1	3	0
Detigon (452 FBA) linctus ..	4 oz	48	0	12 0	7	0
Dimyrl (502 Genatosan) capsules ..	20	38	0	9 6	5	6
Disipal (221 Camden) tablets 50 mgm ..	1000	127	6ea	..	170	0
	10,000	1237	6ea	..	1650	0
Distaquaine-V (378 DCBL) elixir ..	2 oz	4	11ea	..	7	4½TS
	1½ oz	11	10ea	..	17	9 TS
Distaquaine V-K (378 DCBL) suspension ..	2 oz	6	4ea	..	9	6 TS
Dramal (976 PS&T) diet food ..	..	76	6	..	8	6
Easy (509 Gibbs) shaving stick ..	..	16	9½	4 1	2	0
	..	8	4½	2 0½	1	0
Elastocrepe (1155 S&N) wrist straps 2½ in. wide 3112	..	17	3	..	2	0
Elastoplast (1155 S&N) dressing strips	..	..	..	..	..	..
	1½" x 1 yd ..	4015	21	6	..	2 6
	2½" x 1 yd ..	4025	30	0	..	3 6
	3½" x 1 yd ..	4003	34	6	..	4 0
first aid dressings ..	4106	8	9	..	1	0
	4111	17	3	..	2	0
first aid outfits No. 1	4447	99	0	..	11	6
No. 2	4448	99	0	..	11	6
pocket strips ..	4100	10	9	..	1	3
waterproof first aid	..	..	..	..	..	..
dressing ..	7106	8	9	..	1	0
	7111	17	3	..	2	0
waterproof medical and	..	..	..	..	..	..
factory first aid outfit	7447	99	0	..	11	6
waterproof pocket strips	7100	10	9	..	1	3
Erasmic (509 Gibbs) shaving stick ..	..	16	11½	4 1½	2	3
	..	10	0½	2 5½	1	4
Erythromycin (1263 Upjohn) tablets 100 mgm ..	25	10	3ea	..	TS	..
	100	38	10ea	..	TS	..
	500	185	2ea	..	TS	..
250 mgm ..	25	21	3ea	..	TS	..
	100	83	6ea	..	TS	..
	500	406	2ea	..	TS	..

the original half-volume, ideally balanced, TRIPLE ANTIGEN

* DIPHTHERIA

TRIVAX

* TETANUS

* WHOOPING COUGH



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

Erythrocin I.M. (2 Abbott) disposable syringe 50 mgm .. 1 mil	5	2ea	..	7	9	TS
2 mils .. 6	Sea	..	10	0	TS	
Euthymol (938 PD) toothpaste	12	8	3	1	10	
Evan Williams (437 EW) hand cream, large ..	15	10	7	11	2	6
Fabulo (554 Haetam) hair curlers and rollers						
No. 1 7	15	0	3	9	2	4
2 5	15	0	3	9	2	4
3 3	15	0	3	9	2	4
2/T 6	15	0	3	9	2	4
Farleys (448 Farleys) rusks	13	7	..	..	1	5
	7	2	..	..	9	
Fennings (1100JS) fever mixture	17	8	4	5	2	4
Feravol (228 Carlton) syrup 4 oz	34	0	..	..	4	6
8 oz 7	60	0	..	..	7	6
80 oz 42	6ea	..	..	..	3	6
Fibrosine (655 ICC) balm	26	6	6	8	3	6
Filon (1320WP) tablets 100	264	0	66	0	38	6
Florinet (1176 Squibb) lotion 15 mils	7	6ea	..	..	11	3
ointment 5 gm	4	0ea	..	..	6	0
with Graneodin lotion 15 mils	11	0ea	..	..	16	6
ointment 5 gm	5	3ea	..	..	7	10
Fovane (583 HP) tablets 50 mgm .. 30	19	2ea	..	..	28	9
100 60	0ea	..	..	..	90	0
500 290	0ea	..	..	..	435	0
<i>Delete</i> Gardenal (971 PSMB) sodium gr 1 .. 1000	..	..	..	..	..	..
Gibbs (509 Gibbs) dentifrice	8	10	2	1	1	2
<i>Delete</i> Halex (560 Halex) chamber non-spill F519	..	..	..	..	..	..
<i>Delete</i> nail brush surgical D524	..	..	..	..	..	..
<i>Delete</i> tooth-brush minor short A190	..	..	..	..	..	..
<i>Delete</i> Healo (339 CG) C141	..	..	..	..	..	..
Halo (280 CP) shampoo .. sachet	5	0	1	3	8	
Hypertensin (262 CIBA) ampoules 0.5 mgm/2 mils 6	16	0ea	..	..	24	0
Icipen V (649 ICI) suspension .. 1 oz	72	0	..	..	9	0
2 oz 118	0	..	..	..	14	9
syrup .. 30 mils	56	0	..	..	7	0
60 mils 90	0	..	..	..	11	3
Ickosan (78 AS&Co) ichthammol powder ..	24	0	6	0	3	6
<i>Delete</i> Inecto (1028 Rapidol) cream bleach .. 1 1/2 oz	..	..	..	..	..	..
Ilozone (413 Lilly) for oral suspension 60 mils	7	0ea	..	..	10	6
Pulvules 125 mgm .. 24	10	10ea	..	..	16	3
100 .. 43	2ea	..	..	..	64	9
500 .. 208	6ea	..	..	..	312	9
250 mgm .. 12	10	2ea	..	..	15	3
100 .. 83	6ea	..	..	..	125	3
500 .. 406	2ea	..	..	..	609	3
Hotycin (413 Lilly) intravenous 250 mgm	12	4ea	..	..	18	6
paediatric .. 60 mils	6	0ea	..	..	9	0
tablets 100 mgm 24	9	10ea	..	..	14	9
100 .. 38	10ea	..	..	..	58	3
500 .. 185	2ea	..	..	..	277	9
250 mgm 12	10	2ea	..	..	15	3
100 .. 83	6ea	..	..	..	125	3
500 .. 406	2ea	..	..	..	609	3
<i>Delete</i> Insulin (147 Boots) 20 units/cc 5 cc	..	..	..	..	..	..
Intraval (971 PSMB) sodium ampoules 2.5% 0.5 gm 5	124	0	..	..	15	7
ampoules 2.5% 0.5 gm 6	..	..	..	..	..	..
ampoules 5% 0.5 gm 5	103	0	..	..	12	11
ampoules 5% 0.5 gm 6	..	..	..	..	..	..
ampoules 5% 1 gm .. 5	160	0	..	..	20	0
ampoules 5% 1 gm .. 6	..	..	..	..	..	..
suppositories 750 mgm 5	100	0	..	..	12	6
Johnsons (673 JofH) photographic year book 1961	..	..	..	..	6	6
Kobler (1253 Turnpenny) electric razors	..	..	..	..	..	..
Classic 156	1ea	39	0ea	262	0	
home + car 173	0ea	43	3ea	290	6	
Export 134	9ea	33	8ea	233	4	
Junior 84	6ea	21	2ea	142	0	
Lady 139	1ea	34	10ea	234	0	
Triplex 179	1ea	44	9ea	300	6	
V-Matic 171	8ea	42	11ea	288	6	
home + car 190	7ea	47	8ea	319	11	
Kolantyl (838 MN) gel 32 oz	15	8ea	3	11ea	27	5
Kompo (1329 White) .. 4 oz	15	0	3	9	2	0
8 oz 26	0	6	6	3	6	
Kwells (634 GH) .. 18	0	..	..	2	0	†
Largactil (971 PSMB) suppositories .. 50	580	0	..	..	72	6
Leviton (187 BS) tablets .. 100	240	0	..	..	26	8
Librium (1074 Roche) capsules 5 mgm .. 25	54	0	13	6	7	10
100 192	0	48	0	28	0	
500 65	0ea	16	3ea	113	9	
Linhol (1017 PO) tripods	..	..	..	..	..	..
Clampod S49	88	0ea	21	6ea	153	6
Special-U S87	141	0ea	34	4ea	245	10
Special-O S96	156	Sea	38	3ea	273	3
Dural-U S139P	220	2ea	53	9ea	384	0
Twin Shank Pro S276R	456	Sea	..	..	685	0
Cine S276H	456	Sea	..	..	685	0
Heavy Duty Pro S420R	704	Sea	..	..	1057	0
Cine S420H	704	Sea	..	..	1057	0
Lobak (97 Bayer) tablets .. 50	100	0	25	0	14	7
500 79	0ea	19	9	138	3	
Lobidan (1258 UP) anti-smoking tablets ..	100	0	25	0	14	7
Loxene (563 Hampshire) hair cream	12	10	6	4	2	0
Medinal (187 BS) tablets 0.32 gm .. 100	60	0	..	..	6	8
250 136	0	..	..	..	15	1
0.5 gm .. 100	85	6	..	..	9	6
250 199	0	..	..	..	22	1
Meggeson (831 Meggeson) sore throat lozenges ..	12	0	3	0	1	9
Mentadol (955 Pepsodent) tooth-paste	15	2 1/2	3	7 1/2	2	0
	22	1 1/2	5	3	2	11
<i>Delete</i> Miltown (746 Lederle) capsules 400 mgm .. 50	..	..	..	..	..	..
<i>Delete</i> 250	..	..	..	..	..	..
Miraglio (671 Jeyes) ..	9	0	..	..	1	0
	13	6	..	..	1	6
Monroes (78 SA&Co) asthma powder ..	24	0	6	0	3	6
Nasofen (147 Boots) nasal drops .. 1/2 oz	24	0	..	..	3	0
Neovit (1091 Rybar) capsules .. 30	84	0	..	..	10	6
elixir .. 4 oz	24	0	6	0	3	6
8 oz 44	0	11	0	6	6	
New Era (887 New Era) biochemic tissue salts	41	0	10	3	6	0
	68	0	17	0	10	0
	206	0	51	6	30	0
	432	0	108	0	63	0
"Schuessler" cabinet	..	..	..	..	..	..
Nivea (1155 S&N) creme .. 362	9	0	4	6	1	6
368 15	0	7	6	2	6	
363 27	0	13	6	4	6	
364 10	0	5	0	1	8	
370A 72	0	36	0	12	0	
liquid .. 268	15	0	7	6	2	6
267 27	0	13	6	4	6	
Nurse Sykes (1307 Waterhouse) bronchial balsam ..	19	0	4	9	2	9
	33	0	8	3	5	0
Penicillin V (378 DCBL) suspension .. 2 oz	3	Sea	..	..	5	6
Pepsodent (955 Pepsodent) tooth-paste	14	4 1/2	3	5	1	11
	21	4 1/2	5	1	2	10
Pilease (78 AS&Co) ointment	19	3	4	9 1/2	3	0
Pineate (655 ICC) cough syrup ..	20	8	5	2	2	9
Pin-Up (955 Pepsodent) home perm	33	7	15	11 1/2	5	6
	52	5	24	11	8	9
	14	10	7	5	2	4
<i>Delete</i> jar	22	6	..	..	2	6
<i>Delete</i> tissues	..	..	..	..	..	..
<i>Delete</i> Pitressin (938 PD) ampoules	..	..	..	..	..	..
1 mil 100	..	..	..	..	..	..
Piptal (114 Bengcr) tablets 5 mgm .. 50	96	0	..	..	12	0
500 66	6ea	..	..	..	..	..
Poliomyelitis (969 Pfizer) vaccine ampoule 1 mil .. 1	48	0	..	..	6	0
	6	270	0	..	33	9
vial 10 mils 32	6ea	..	..	..	48	9
Polimylex (208 BW) ampoule 1 mil ..	48	0	..	..	6	0
Polivirin (518 Glaxo) ampoules 1 mil .. 1	48	0	..	..	..	TS
6 270	0	..	..	..	..	TS
Ponds (256 CPL) dry skin cream .. tube	14	10	7	5	2	4

SAFE and EFFECTIVE NON-BARBITURIC

SEDATIVE and HYPNOTIC

THE DISTILLERS COMPANY (Biochemicals) LIMITED
SALES DIVISION, LIBERTY 6600, LONDON**'DISTAVAL'**
TRADE MARK

moisturising foundation									
cream jar	15	10	7	11	2	6			
tube	15	10	7	11	2	6			
Predsol (518 Glaxo)									
retention enema box of 7	45	6ea			60	8	TS		
Preparation "H" (655 ICC)									
suppositories 6	26	6	6	8	3	6			
Radox (634 GH)									
bath salts	14	8	7	4	2	3			
	26	2	13	1	4	0			
Rennies (634 GH)	36	10	2	10	6				
	25	8	10	2	2½	1	2		
	50	15	1	3	9½	2	0		
	100	24	7	6	1½	3	3		
Rexall (1053 Rexall)									
Childrens aspirin .. 50	13	6	3	4½	1	11			
Rikospray (1061 Riker)									
silicone hp	46	0ea	11	6ea					
benzocaine hp	36	0ea							
S.7 (218 Calmic)									
cream 30 gm	46	0	11	6	6	8½			
dusting powder	15	25	0	6	3	3	8		
	75	59	0	14	9	8	7		
jelly 15 gm	26	0	6	6	3	9½			
Salupres (837 MSD)									
tablets 25	6	0ea			9	0	†s4B		
Sandersons (1097 Sandersons)									
bad cold mixture ..	18	0	4	6	2	6			
composition essence .. 4 oz	11	0	2	9	1	8			
indian brandee .. 2 oz	11	0	2	9	1	8			
indigestion mixture ..	18	0	4	6	2	6			
infants soothing syrup	11	0	2	9	1	8			
throat specific ..	14	4	3	7	2	0			
vapour rub	11	0	2	9	1	8			
Scheriproct (1107 SAGE)									
(distributors 973 Pharmethicals)									
ointment tubes dp 50	293	0ea			439	6	TS		
Seleen (2 Abbott)									
suspension vet .. 6 oz	6	10ea			10	3			
	16 oz	17	0ea		25	6			
Selsun (2 Abbott)									
cream ½ oz	3	0ea			4	6			
suspension .. 1 oz	2	0ea			3	0			
	2 oz	3	8ea		5	6			
	4 oz	6	10ea		10	3			
Signal (509 Gibbs)									
toothpaste	15	10	3	10½	2	1			
	23	3½	5	8½	3	1			
Silvavin (1030 Ravika)									
lavender bath tablets (5)	14	0	7	0	3	0			
	10 pkts	10 pkts							
Skylon (461 FL)									
feeding bottle ..	13	4			1	8			
Spurt (1037 Reekitt)									
liquid feed	28	0			3	6			
S.R. (509 Gibbs)									
toothpaste	14	6½	3	6½	1	11			
	21	5	5	2½	2	10			
	27	7½	6	8½	3	8			
	58	3	14	2½	7	9			
Stelabid (1153 SKF)									
Spanules 30									
	250								
Stelazine (1153 SKF)									
Spanules 2 mgm .. 30	12	0ea			18	0	†s4B		
	250	95	0ea		142	6	†s4B		
Stemetil (971 PSMB)									
ampoules 1.25% 2 mils 10									
Suba-Seal (479 WF)									
bathing caps									
Chie									
Coronet	28	6	2	0	3	9			
Suba-Charin ..	38	0	2	0	4	11			
Suba-Joy	46	0	2	0	5	11			
Suba-Gay	53	0	3	0	6	11			
Sunsilk (509 Gibbs)									
liquid polythene tube both sizes									
Sulmezil V (649 ICI)									
suspension 2 oz	78	0			9	9	s4BTS		
Sustacol (972 Pharmax)									
tablets 20	6	4½ea			†s4A				
	200	42	0ea		†s4A				
Tabloid (208 BW)									
ergometrine maleate									
injection 0.5 mgm/1 mil10	68	0			8	6	p1s1		
	100	520	0		65	0	p1s1		
tablets 0.5 mgm .. 25	100	0			12	6	p1s1		
	100	346	0		43	3	p1s1		
	500	1512	0		189	0	p1s1		
T.B.P. (174 BA)									
hair and scalp treatment	22	6	5	7½	2	11½			
Terra-Cortril (969 Pfizer)									
spray 1 oz	174	0			21	9	TS		
Thrive (1037 Reekitt)									
fertiliser 1 lb	16	0			2	0			
	3 lb	36	0		4	6			

	7 lb	56	0	..	..	7	0		
	14 lb	88	0	..	..	11	0		
	28 lb	164	0	..	..	20	6		
	56 lb	304	0	..	..	38	0		
Trescatyl (971 PSMB)									
powder 2 gm	80	0	20	0	11	8			
tablets 250 mgm .. 50	43	4ea	10	10ea	75	10			
Triotussic (1303 Wander)									
suspension 4 oz	60	0	15	0	8	9	†s7		
	20 oz	256	0	64	0	37	4	†s7	
Trufood (1249 Trufood)									
Junior foods jar	12	0	..	..	1	3			
Trugel (634 GH) ..	17	4	8	8	2	10			
Valderma (343 DH)									
tube large	30	7½	..	..	3	6			
Vaseline (256 CPL)									
petroleum jelly									
yellow dp 7 lb	150	0	..	..					
white dp 7 lb	192	0	..	..					
hair cream dispenser ..	55	10	27	11	8	9			
refill	24	4	12	2	3	10			
Vegolysen (971PSMB)									
solution 10% 1 mil .. 10	..	..	..	..	..	..			
Veno's (104 BP)									
cough mixture ..	31	2	7	9½	4	0			
Vigdor (299 CV)									
after shave lotion 9½ oz	80	0	39	0	13	6			
bath oil capsules									
"Brolly" pack ..	25	6	12	5	4	3			
"Fairy Wand" ..	20	0	9	9	3	4			
bubble bath essence									
"Pink Champagne" sachet	6	10	1	8	1	0			
2-3 bath ..	17	0	4	2	2	6			
6 bath ..	32	6	7	11	4	9			
18 bath ..	65	6	16	0	9	6			
Devon Violet perfume ½ oz	32	0	15	7	5	6			
eau de Cologne or lavender									
water .. 8 oz	14	0	6	9	2	4			
decanter 26 oz	66	6	32	5	11	0			
export Cologne or lavender water									
"Champagne" .. 4 oz	42	0	20	6	7	0			
"Raffia Net" ..									
eau de Cologne .. 12 oz	42	0	20	6	7	0			
"Winchester" ..									
eau de Cologne .. 20 oz	42	0	20	6	7	0			
	40 oz	80	0	39	0	13	3		
talcum powder drum 10 oz	14	0	6	9	2	4			
Vita-Glow (299 CV)									
Wellcome (208 BW)									
calcium borogluconate solution									
20% vet. 400 cc									
Wescodyne (115 Bengue)									
germicide .. 16 oz	192	0	..	..					
	80 oz	720	0	..					
Zarontin (938 PD)									
capsules 0.25 gm .. 50	14	0ea	..	..	21	0			
	500	126	Sea	..	190	0			

AMENDMENTS TO KEY TO SUPPLIERS:

- (292 C)=CONTINENTAL LABORATORIES, LTD., 85 Church Road, Hove, Sussex. Hove 70599.
 (371 Destrol)=DESTROL, LTD., 64 Cannon Street, London, E.C.4.
 (461 FL)=FIBRENYLE, LTD., Skylon House, Park Royal Road, London, N.W.10. Elgar 6006.
 (483 Fryer)=FRYER & CO. (NELSON), LTD., Victory Factories, Nelson, Lancs. Nelson 64311.
 (604 AH)=ASTRA-HEWLETT, LTD.
 (816 Mayborn)=MAYBORN PRODUCTS, LTD., 139 Sydenham Road, London, S.E.26. Sydenham 4422.
 (1017 PO)=PULLIN OPTICAL CO., LTD., Ellis House, Aintree Road, Perivale, Middlesex. Alpertons 1541.
 (1144 DS)=(Dr.) SINGHA CO., LTD., 1 Victoria Street, Caernarvon, Caernarvon 2117.
 (1262 UL)=UNIVERSAL LABORATORIES, LTD., Wear Bay Road, Folkestone, Kent. Folkestone 51981.

THIS WEEK'S CHANGES

NEW and altered entries notified for the first time.
 A=Advanced. R=Reduced.

Entries new this week are marked thus:—●

Delete	Acidol-pepsin (97 Bayer)								
	tablets	500							
A	Amplex (67 Ashe)								
	tablets standard .. 30	13	7	3	4½	1	10		
A	Anti-Bi-San (451 F&J)								
	chills	33	9	8	5	4	6		
A	Antipeol (829 MBL)								
	liquid 2 oz	28	0	7	0	3	11		
	ointment tube	19	0	5	0	2	8		
		32	0	8	0	4	6		
		59	0	15	0	8	3		
	jar 16 oz	208	0	52	0	29	0		

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R	eye shadow ..	6	0	3	0	1	0
	face powder small ..	9	0	4	6	1	6
	hand cream ..	7	6	3	9	1	3
		12	0	6	0	2	0
A	lipstick ..	15	0	7	6	2	6
R	mascara & eye pencil sets	12	0	6	0	2	0
A	rouge ..	7	6	3	9	1	3
Delete	Prominal (97 Bayer) tablets $\frac{1}{2}$ gr 1000						
	1 gr 1000						
	3 gr 1000						
	Redclo (1215 Teasdale) lozenges						
	linseed, licorice & chloro.	1	8	5	5	3	
	4 lb	2	8lb	9	1	5	0
A	Rhino-Antipeol (829 MBL)						
	ointment .. tube	17	0	4	0	2	5
		32	0	8	0	4	6
	Rhyso-Val (276 C&C)						
R	dragees .. 100	36	0	..	..	4	0 ts4B
	Roccal (97 Bayer)						
A	antiseptic .. 6 oz	19	4	..	..	2	5
A		16 oz	43	0	..	5	4
A		80 oz	150	0	..	17	6
Delete	cream all sizes						
A	Safoin (63 Arnold)						
	colour-gloss oil ..	38	0	19	0	6	4
	glamour hair rinse ..	38	0	19	0	6	4
	hair dye ..	44	0	22	0	7	4
	bleach ..	44	0	22	0	7	4
	white henna ..	38	0	19	0	6	4
A	St. James Balm (829 MBL)	16	0	4	0	2	3
		29	0	7	0	4	0
R	Salimed (830 Medo)						
	tablets .. 100	72	0	..	..	9	0
		250	13	4ea	..	20	0
		500	21	0ea	..	31	6
		1000	40	0ea	..	60	0
	compound .. 25	40	0	..	..	5	0 ts1s4A
		100	10	6ea	..	15	9 ts1s4A
		250	24	0ea	..	36	0 ts1s4A
●	Selora (97 Bayer)						
	powder .. 2 oz	29	0	..	..	3	3
		8 oz	88	0	..	9	9
A	Sister Laura's (1146 SL)						
	food .. 8 oz	23	9	..	..	2	6
		16 oz	45	2	..	4	9
●	Soothene (727 Lane)						
	antiseptic ointment .. 1 oz	17	11	4	6	2	6
R	Stelabid (1153 SKF)						
	tablets .. 30	144	0	..	..	18	0 ts4B
		250	95	0ea	..	142	6 ts4B
Delete	Sterathal (1305 WB) suspension 4 oz and 16 oz						
R	Stride (179 BDH)						
	.. 26	0	..	..	..	3	3
	Submarine (555 Haffenden)						
	swimming caps						
●	hairline No 1 ..	30	4	1	6	3	11
Delete	penguin floral ..						
	Tabloid (208 BW)						
A	ergometrine maleate 0.5 mgm						
	25	100	0	..	..	12	6 p1s1
		100	346	0	..	43	3 p1s1
		500	1512	0	..	189	0 p1s1
Delete	Theominal (97 Bayer) tablets 50						
	5000						
R	Tokalon (1240 Tokalon)						
	(distributors 327 WC)						
	cleansing cream .. jar	7	6	3	9	1	3
		12	0	6	0	2	0
		22	6	11	3	3	9
	face powder large ..	15	0	7	6	2	6
	rose skinfood .. jar	9	0	4	6	1	6
		15	0	7	6	2	6
		30	0	15	0	5	0
	vanishing cream .. jar	9	0	4	6	1	6
		15	0	7	6	2	6
		30	0	15	0	5	0
R	Tyrimide (1153 SKF)						
	tablets 5 mgm .. 30	92	6	..	..	11	7
		250	57	10ea	..	86	9
R	Vanquin (938 PD)						
	suspension .. 1 oz	56	0	..	..	7	0
		16 oz	720	0	..	90	0

V-Cil-K (413 Lilly)							
R	syrup 30 mls ..	3	10ea	..	..	5	9 TS
	60 mls ..	6	4ea	..	..	9	6 TS
V-Cil-K Sulpha (413 Lilly)							
R	suspension 60 mls ..	4	Sea	..	..	7	0 ts4BTS
A	Vecortanol (262 CIBA)						
	injection 100 mgm 4 mls	14	5ea	..	..	18	0 TSVPO
	250 mgm 10 mls	33	0ea	..	..	41	3 TSVPO
●	Venules (97 Bayer)						
	automatic syringe plain	16	6	..	..	1	10
	oxalate	22	6	..	..	2	6 p2
	Wintrobe	22	6	..	..	2	6 p2
A	Vetidrex (262 CIBA)						
	injection vial 10 mls ..	1	16	9ea	..	21	0 VSO
		5	80	4ea	..	100	6 VSO
	tablets ..	25	11	0ea	..	13	9 VSO
		100	41	Sea	..	52	3 VSO
	Viacutan (1305 WB)						
●	tulle 5 in x 5 yd .. hp	264	0	66	0	38	6
●	Vioform (262 CIBA) veterinary						
	hydrocortisone salve ..	4	2ea	..	..	5	3 TSVSO
	sour paste .. 2 oz	7	Sea	..	..	9	9
	tablets .. 30	4	3ea	..	..	5	4
		200	23	9ea	..	29	9
	Vionate (1176 Squibb)						
	1 lb	3	Sea	..	..	5	6
	2 lb	18	Sea	..	..	28	0
	10 lb	80	0ea	..	..	120	0
	50 lb	333	4ea	..	..	500	0
	Wellcome (208 BW)						
A	ergometrine maleate						
	0.5 mgm in 1 ml .. 10	68	0	..	..	8	6 p1s1
		100	520	0	..	65	0 p1s1
	Wernets Dr. (1178 Stafford)						
	(distributors 451 F&J)						
A	denture powder ..	26	0	..	..	3	3
A	Winslow's, Mrs. (261 Christy)						
	syrup ..	20	7	5	2	3	0
A	Youthexa (63 Arnold)						
	after-hair lotion ..	44	0	22	0	7	4
		66	0	33	0	11	0
	anti-grease scalp pack	44	0	22	0	7	4
		66	0	33	0	11	0
	astringent cream ..	44	0	22	0	7	4
		66	0	33	0	11	0
	blackhead remover outfit	66	0	33	0	11	0
	cleansing cream ..	44	0	22	0	7	4
		66	0	33	0	11	0
	easy hair tint ..	38	0	19	0	6	4
	hair grokair ..	44	0	22	0	7	4
	tinting erayon ..	38	0	19	0	6	4
	remover stick ..	29	0	14	6	4	10
		44	0	22	0	7	4
	hand balm ..	44	0	22	0	7	4
		66	0	33	0	11	0
	hand cream ..	44	0	22	0	7	4
		66	0	33	0	11	0
	powderstone hair eraser	66	0	33	0	11	0
	skin food cream ..	44	0	22	0	7	4
		66	0	33	0	11	0
	tonic elay pack ..	44	0	22	0	7	4
		66	0	33	0	11	0
	tonic eyelash cream ..	38	0	19	0	6	4
	wrinkle cream ..	44	0	22	0	7	4
		66	0	33	0	11	0

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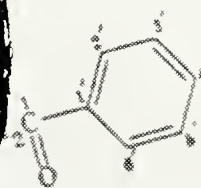
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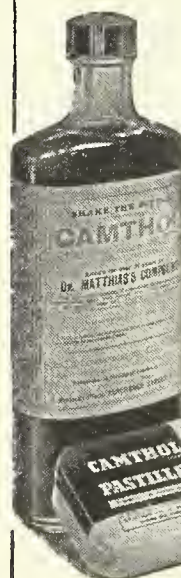
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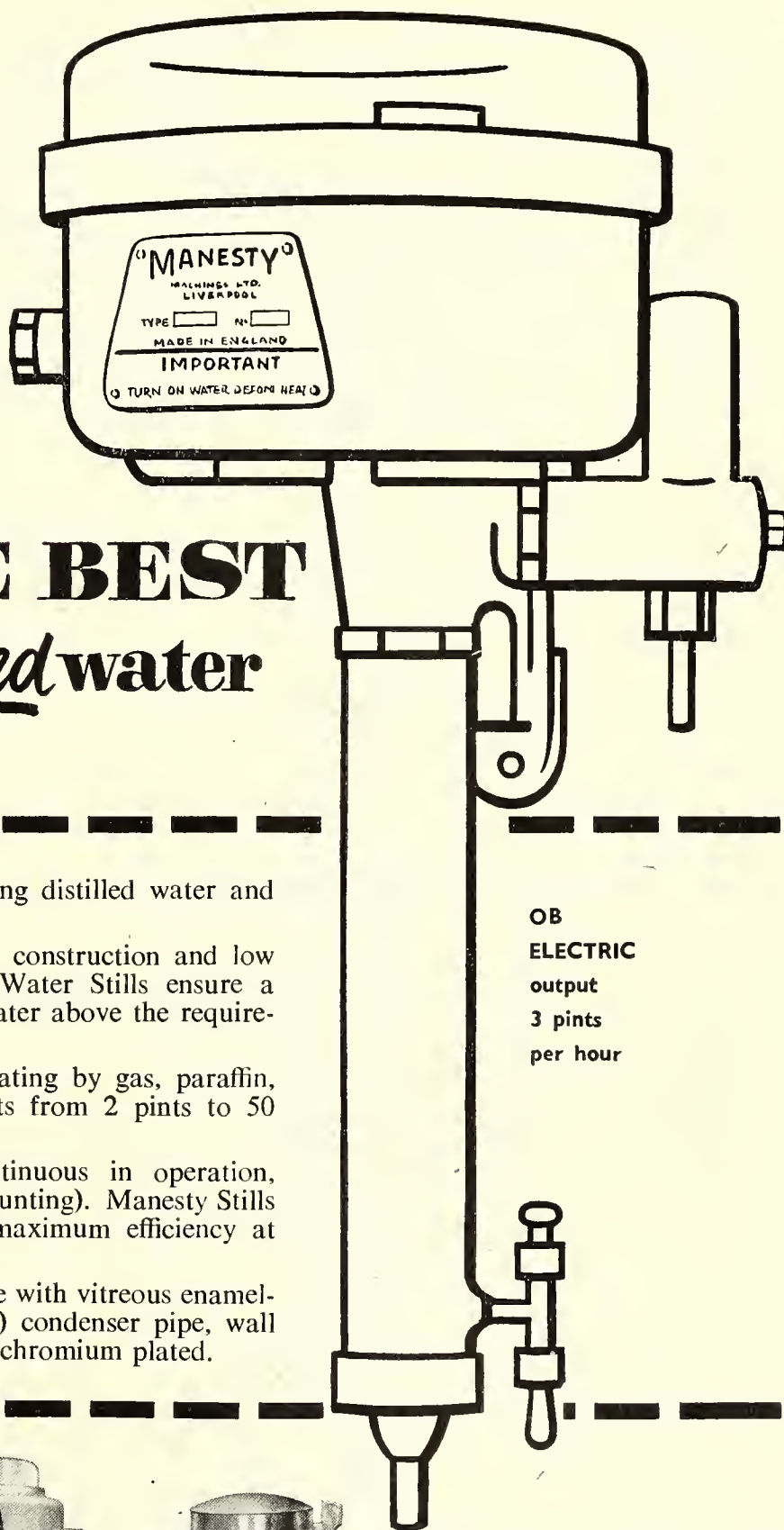
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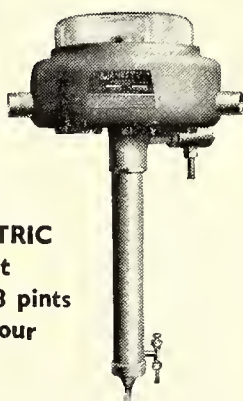
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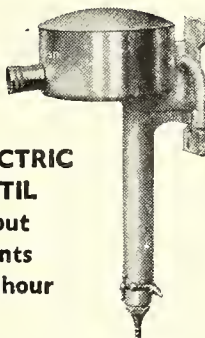
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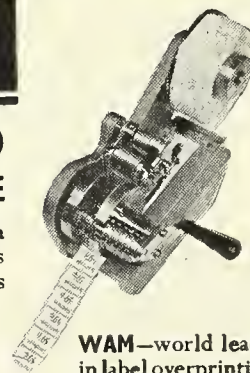
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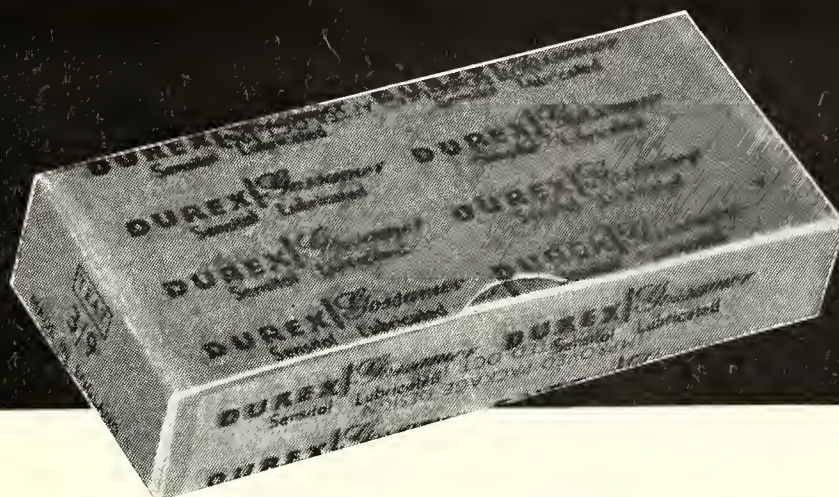
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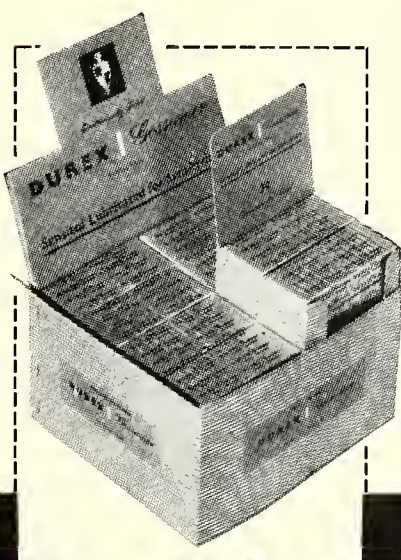


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NATURAL SPONGES**

**Natural
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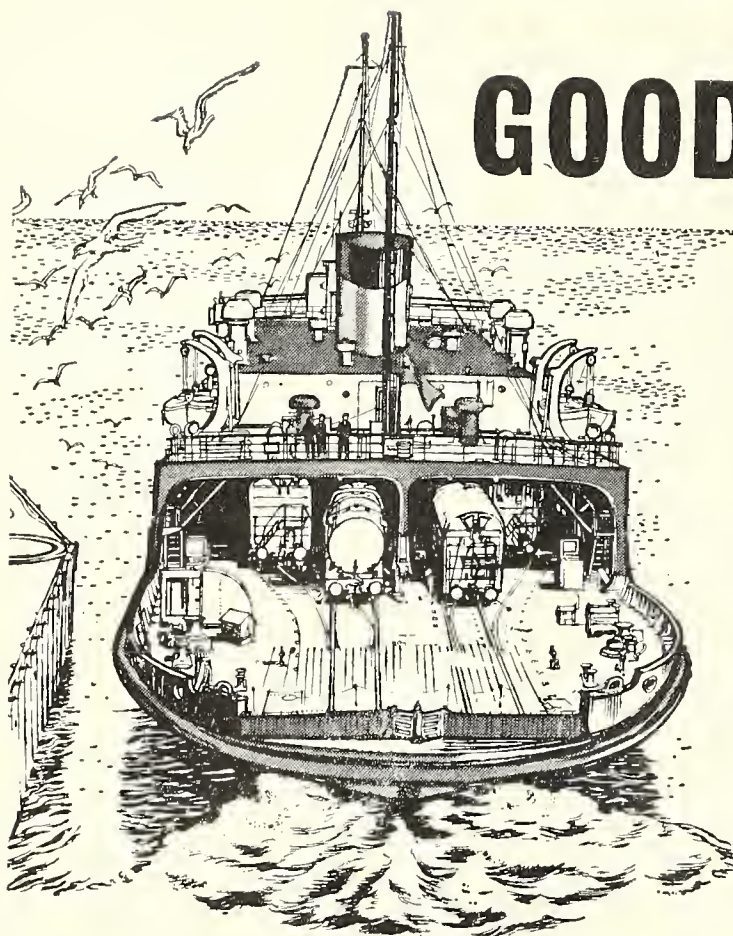
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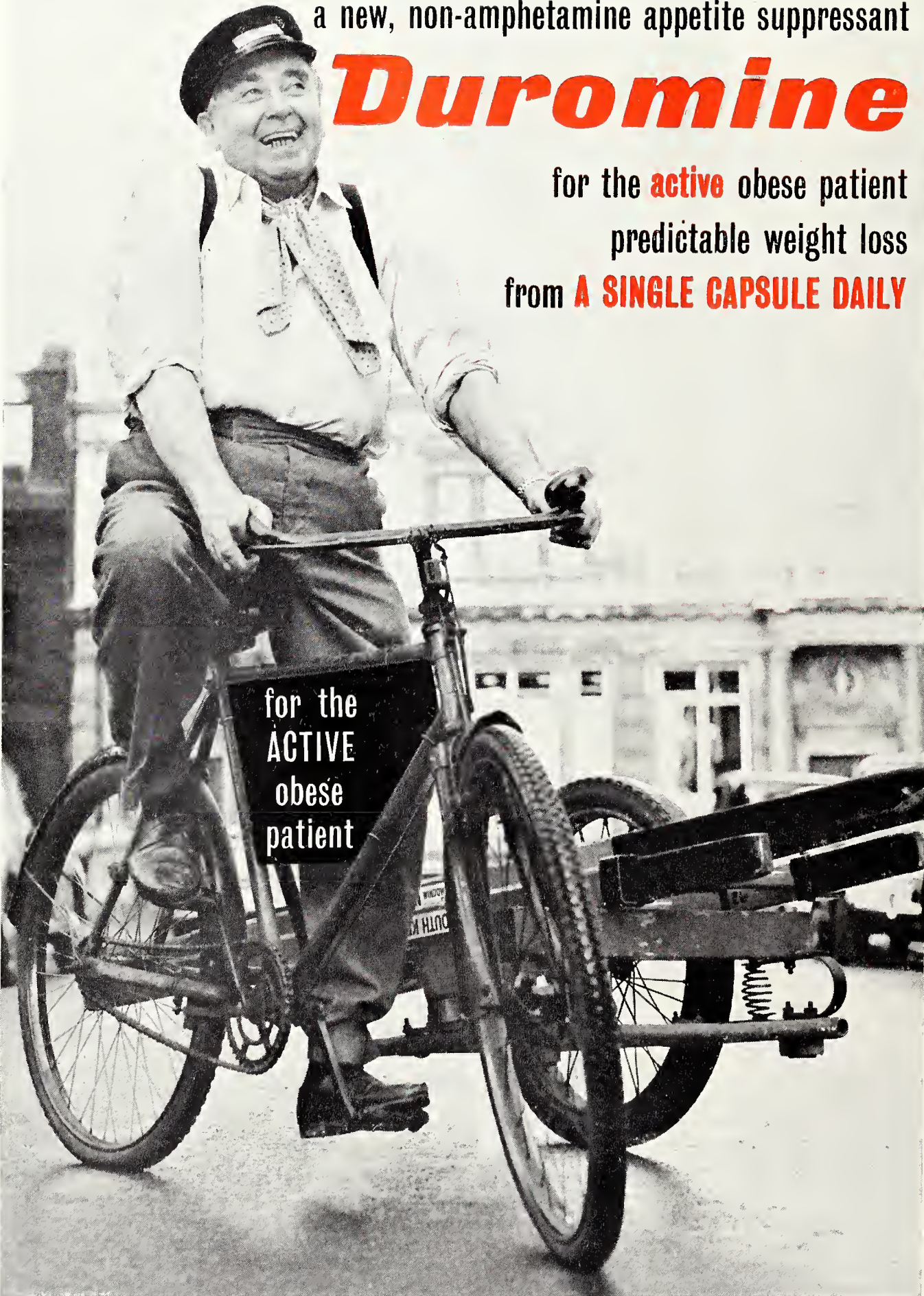
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2 AND 4 FL.OZ.
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a new, non-amphetamine appetite suppressant

Duromine

for the **active** obese patient
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from **A SINGLE CAPSULE DAILY**



for the
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patient

dependable weight loss without stimulation

Duromine is a new, non-amphetamine appetite suppressant containing phenyl-*tertiary*-butylamine in the form of a long-acting ion-exchange resin complex.

Clinical trials have shown that most patients reported an absence of the stimulating effect with Duromine which they had previously experienced with amphetamine.

Amer. J. med. Sci. (1959) 238:55.

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It has been pointed out (Freed and Hays, 1959) that the lack of stimulation following Duromine medication was most appreciated by those patients who were anxious, nervous and tense. Duromine is, therefore, of particular value in those cases where even mild stimulation is neither necessary nor desirable as, for example, in the active, obese patient.

one capsule provides 10-14 hours effect

Due to continuous and smooth release of phenyl-*tertiary*-butylamine from the resinate Duromine gives dependable appetite control for ten to fourteen hours from a daily dose of one capsule taken at breakfast time. Two strengths (15 mg and 30 mg capsules) are available to allow adjustment of dosage for individual needs.

more satisfactory weight loss

"The non-amphetamine drug phenyl-*tertiary*-butylamine as a resin complex produced a more satisfactory weight loss when compared with other medications."

Ann intern. Med. (1959) 51:1295

packs		price to chemist	Resale Price
15 mg capsules	bottles of 30	8/8	15/2
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Duromine is available on prescription only

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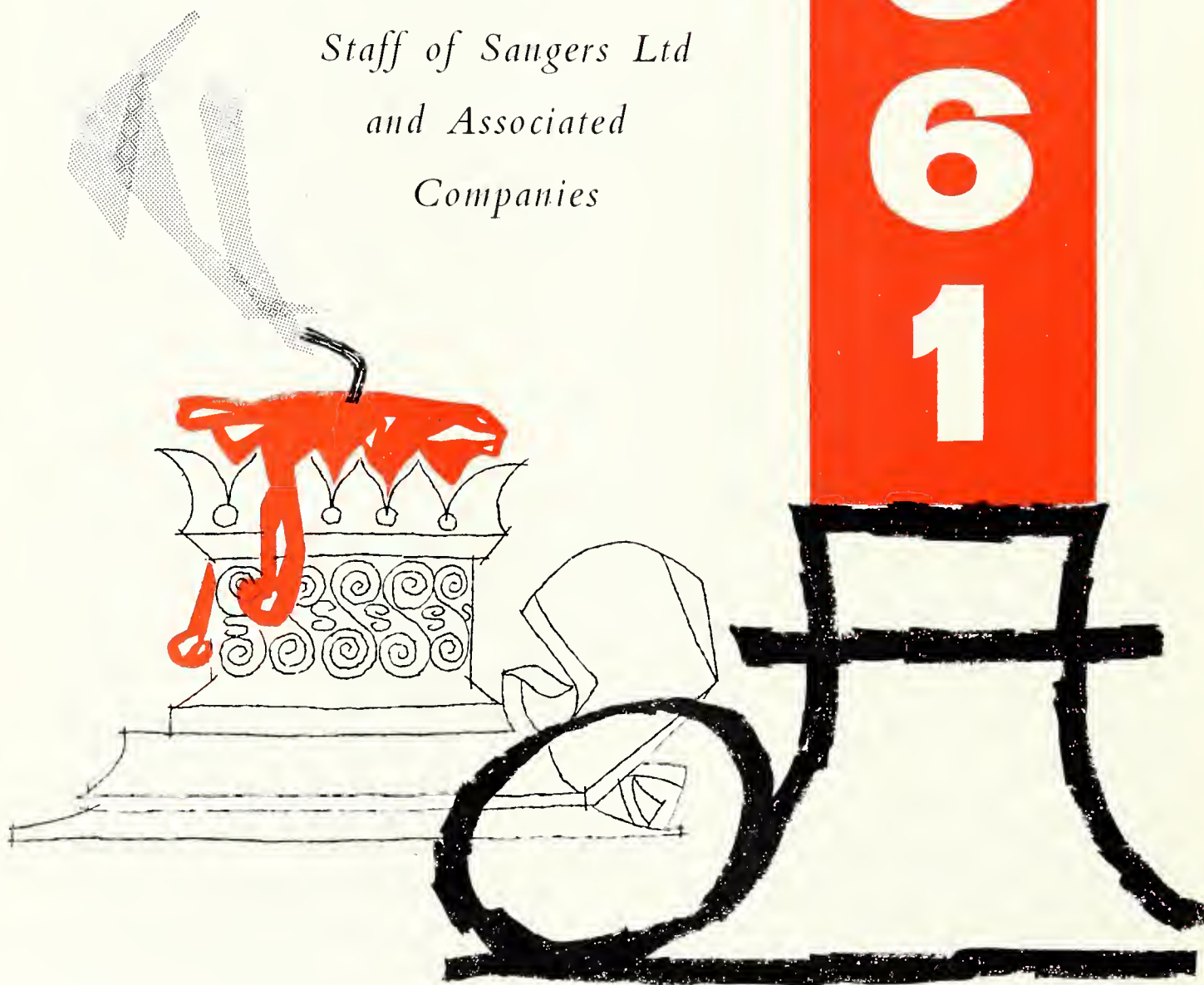
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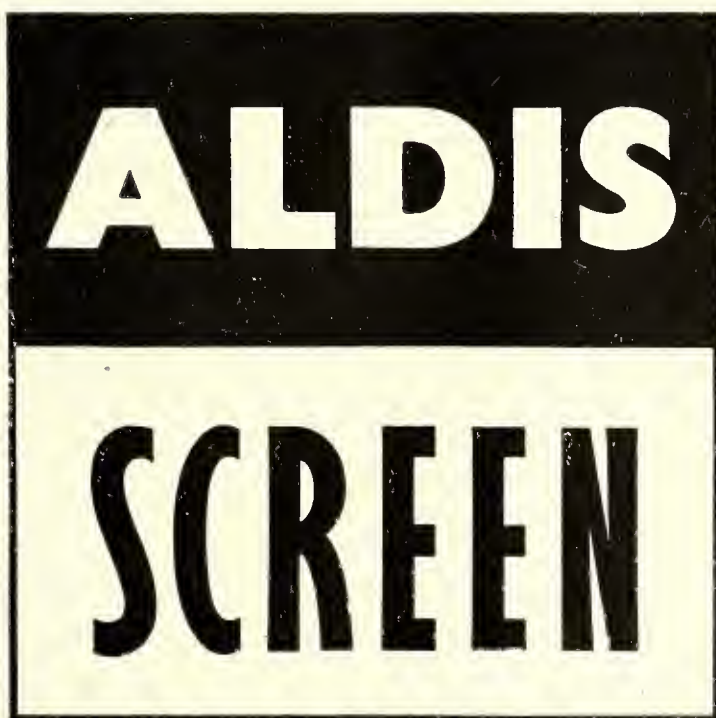
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FEATURES



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teats
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CANNON
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Wise mother! She knows there will be no feeding time temperament because CANNON Modern teats *never* put a baby off his feed. She can choose from *three* flow sizes the one that suits her child's preferred rate of feed. All CANNON teats have *triple perforation* to ensure even, air-free flow, and *spiral reinforcement* to prevent softening or collapse of the rubber. And CANNON teats *last longer* meaning fewer new ones to 'break in' — try them and see.

7½d. from all
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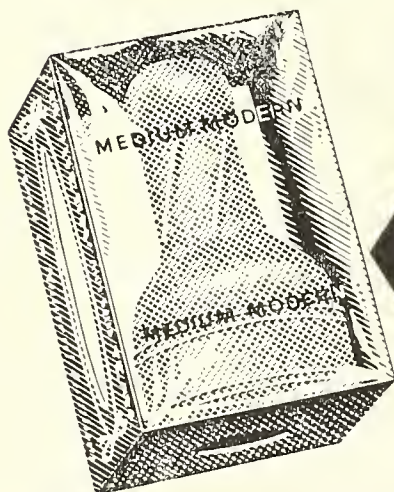
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C 6162

APPOINTMENTS

BURTON-ON-TRENT HOSPITAL MANAGEMENT COMMITTEE, THE GENERAL HOSPITAL

Senior Pharmacist

required. Previous hospital experience not essential. National rates of pay and conditions of service. Full particulars and names of two referees to: Group Secretary, as soon as possible. C 6144

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

Senior Pharmacist

for Bethnal Green Hospital. Modern department approved for training students. Salary scale £770—£1,010 p.a. plus higher qualification allowance and London Weighting. Please apply with details of age, training and experience to the Group Secretary, 213 Kingsland Road, London, E.2. C 553

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Shop and Maisonette to Let

Tenders are invited for the lease of shop premises (with maisonette over) at 73, Marbles Way, Tadworth, at present used by a dispensing chemist who also sells fancy goods associated with a chemist. The Shop is one of a parade of six shops, namely a grocer, hardware and domestic store (including a sub-post office), butcher, draper, newsagent and stationer and chemist.

Applicants may submit tenders for continuing the shop as a chemist or for an alternative trade different from those already carried out in the adjacent shops. In the event of an applicant desiring to continue the business of a chemist, the present lessee (who is leaving through ill-health) is prepared to dispose of his fixtures and stock at a reduced figure.

Applicants may submit tenders for the lease of the shop with or without the maisonette above.

Forms of tender can be obtained from me at Morden Hall, S.W.19. Tenders in envelopes endorsed "Tender for 73 Marbles Way" should reach me not later than February 3, 1961. The Council is not bound to accept the highest or any tender.

SYDNEY ASTIN,

Clerk of the Merton and

Morden Council.

Morden Hall,
London, S.W.19.

Appointments—Continued

CENTRAL MIDDLESEX HOSPITAL,

PARK ROYAL, N.W.10

Assistant-in-Dispensing

required. Salary on Whitley Council scale. Applications stating age, and experience, with names of two referees to Medical Director as soon as possible. C 6158

HOSPITALS FOR DISEASES OF THE CHEST

Senior Pharmacist

Applications are invited for the post of Senior Pharmacist at THE LONDON CHEST HOSPITAL.

Salary in accordance with the Whitley Council scales. Applications, stating age, qualifications and experience, accompanied by two testimonials, to the House Governor, London Chest Hospital, E.2. C 6159

HERTFORD COUNTY HOSPITAL, HERTFORD, HERTS

(21 miles from London)

Pharmacist

Applications are invited for the above post. Salary and Conditions of service according to Whitley Council. Duties under direction of Chief Pharmacist. Prospects of promotion to Senior Grade. Department responsible for purchase and issue of drugs, dressings, surgical instruments and equipment for above and two other smaller hospitals. Applications giving details of age, qualifications and experience with names of two referees to Hospital Secretary, Hertford County Hospital, Hertford, Herts. C 6148

KING'S LYNN AREA HOSPITALS MANAGEMENT COMMITTEE

Assistant-in-Dispensing

A vacancy occurs for the above post (Apothecary Hall Certificate desirable) in the Group Pharmacy Department at the West Norfolk & King's Lynn General Hospital, King's Lynn. Whitley Council salary and conditions of service. Applications, including age, experience and names of two referees to be sent to the Group Pharmacist. C 6161

LONDON HOSPITAL, WHITECHAPEL, E.1

Pharmacist

required—Salary £690—£920 according to previous experience and service. Applications to House Governor. C 522

PINDERFIELDS GENERAL HOSPITAL, WAKEFIELD

Assistant-in-Dispensing

Applications invited from suitably qualified persons for the above post for a large, well-staffed Group Pharmaceutical Department. Whitley Council salary and conditions. Address written applications, giving full personal particulars and two names and addresses for reference, to W. Bowring, Group Secretary, Pinderfields General Hospital, Wakefield. C 6154

SPRINGFIELD HOSPITAL, LONDON, S.W.17

Senior Pharmacist

required, permanent appointment. Salary: £770 x £30 (1)—£800 x £35 (6)—£1,010 per annum plus London Weighting. Applications to: Group Secretary, Springfield Hospital, Beechcroft Road, London, S.W.17, giving age, qualifications, details of experience and names of two referees. C 6157

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MANAGEMENT COMMITTEE****Post-graduate Student**

required in the pharmacies of the hospitals in the Southend-on-Sea Group. Salary £400 per annum. The hospitals are situated in pleasant surroundings and the post offers excellent opportunities for experience in all branches of pharmaceutical work including dispensing for in-patients and for patients from a busy Consultative Out-patient Department, manufacturing, sterilising, dressings and instruments. Applications stating age, particulars of education, etc., with the names of two referees, should be sent to the Secretary, General Hospital, Southend-on-Sea, as soon as possible. C 6152

**SPRINGFIELD HOSPITAL,
LONDON, S.W.17****Locum Chief Pharmacist**

required for period of three weeks before end of March. Salary, £23 12s. 6d. p.w. Applications to Group Secretary, giving details of experience, qualifications, etc. C 6156

EDUCATIONAL**SOCIETY OF APOTHECARIES
OF LONDON****Examination for
Assistants-in-Dispensing**

A Course of Lectures in Materia Medica and Pharmacology and Lecture-Demonstrations in Practical Pharmacy will be held at this Hall in 1961 on MONDAYS, February 20th, 27th, March 6th, 20th, 27th and April 17th. Dr. T. D. WHITTEY, Chief Pharmacist, University College Hospital, London, and Mr. H. S. GRAINGER, F.P.S., Chief Pharmacist, Westminster Hospital, will lecture on Practical Pharmacy from 5.30 to 6.15 p.m. Dr. HAROLD STEWART, Reader in Pharmacology, St. Mary's Medical School, Paddington, and Dr. P. A. NASMYTH, Senior Lecturer in Pharmacology at St. Mary's Medical School, Paddington, will lecture on Materia Medica from 6.30 to 7.15 p.m. The Course is open to candidates for the examination. Sister Tutors and representatives of pharmaceutical firms. The charge for the Course will be 30/-.

The Society is establishing a Register of persons who have passed the above examination. Applications for admission to the Course and for inclusion in the Register should be addressed to:

The Registrar,
Society of Apothecaries of London,
Black Friars Lane,
London, E.C.4

C 3334

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Genatosan Limited in the Fison Group of Companies wish to recruit young men of calibre for career appointments in their Sales Division.

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C 3340

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ANALYST. Male, 25-30, B.Sc., or A.R.I.C., with some industrial analytical experience required by well-known manufacturing chemists, North London. Five-day week, staff canteen, non-contributory pension scheme, friendly atmosphere. Starting salary according to age and experience. Good prospects. Apply Personnel Manager, Box C 6155.

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Mundells, Welwyn Garden City, Herts.

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C 6153

UNIVERSITY COLLEGE HOSPITAL, IBADAN, NIGERIA SENIOR PHARMACIST

Applications are invited from Registered Pharmacists for the post of Senior Pharmacist in the above Teaching Hospital. Applicants should hold a degree in Pharmacy or the Pharmaceutical Chemist Diploma of the Pharmaceutical Society of Great Britain and must have had at least 5 years' experience in a major hospital or in a manufacturing Pharmacy.

Candidates of Nigerian origin will be appointed on pensionable terms on a salary of £1,368 per annum rising by 4 annual increments to a maximum of £1,584 per annum. An expatriate may be employed on contract terms on a salary of £1,500 per annum rising by 4 annual increments to a maximum of £1,740 per annum. The entry point into the salary scale will be related to the qualifications and experience of the successful candidate. For contract appointments a gratuity of £37.10.0 will be paid for each completed term of three months' service on satisfactory completion of the agreement.

The contract appointment will initially be for two tours of 12 to 18 months renewable by mutual agreement for subsequent tours.

Partly furnished quarters are provided at a rental of 8½ per cent. of salary.

An expatriate Pharmacist will be eligible for 7 days' leave on full pay for each completed month of service in Nigeria. A Nigerian Pharmacist is eligible for 5 days' leave for each completed month of service.

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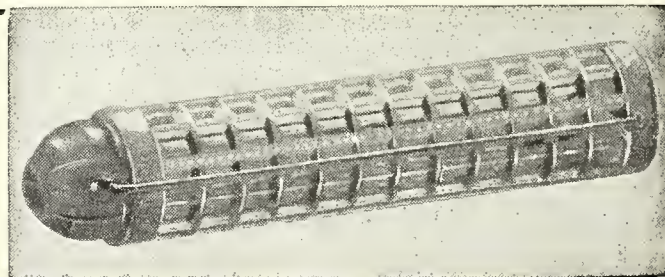
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